Oil, Paint and Drug Reporter

THE CHEMICAL MARKET AUTHORITY

September 17, 1956

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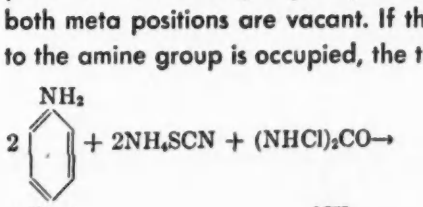
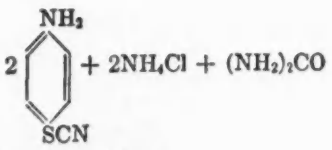


aniline

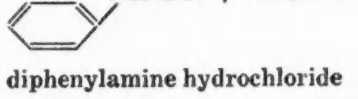


4-thiocyanoaniline

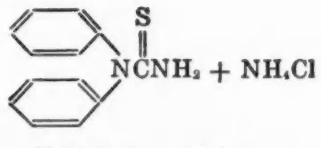
enters one of the ortho positions, but only with difficulty, with excessive heat liberation, and with the formation of a thiazole.

4. Some amine salts react with ammonium thiocyanate to give the corresponding amine thiocyanates.

5. Some amine salts yield the corresponding thioureas.



diphenylamine hydrochloride



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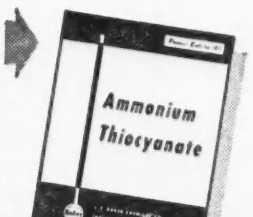

Baker Industrial Chemicals

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Oil, Paint and Drug Reporter

Vol. 170 No. 12 30 Church St., New York 7, N. Y. September 17, 1956

COLTON SALES CHIEF: Ernest J. Hill is the new sales manager of Colton Chemical Company, Cleveland, Ohio, a division of Air Reduction Company.

Chemical Makers Put Sights Higher for Plant Expenditures; Figure Is to Be $1.5 Billion

After taking another look into the situation, producers of chemicals and allied products have raised their sights or expenditures for new plants and equipment this year and are now thinking in terms of $1.5 billion for expansions and improvements—an all-time high. This estimate, just announced by the Department of Commerce and the Securities and Exchange Commission, is based on joint surveys conducted in late July and August. It indicates that the industry plans to top last year's capital spending by about 42 percent and exceed the 1953 previous record by $72 million.

Became More Optimistic

Apparently the industry became more optimistic of the business future as the year moved along. At the start of the year it appeared that new plant and equipment spending would just fall short of the 1953 high of $1,428,000,000.

During the first quarter, actual capital expenditures at $283 million were below expectations, but by the second quarter they had reached $364 million and for the third quarter were scheduled at $433 million. The third quarter schedule is about $51 million more than previously expected. The fourth quarter outlay is planned at $420 million.

The sharp rise in expenditures for the last two quarters follows the trend of industry generally. For all industry, expenditures anticipated in the third quarter are at a reasonably adjusted annual rate of $36.3 billion, while fourth quarter outlays are expected to rise to $38 billion. Actual spending in the second quarter was at a $34.5 billion annual rate.

If these programs are fulfilled, 1956 expenditures will total $35.3 billion, about one percent more than business had scheduled for 1956 early this year, and 23 percent above the record 1955 total.

Manufacturers have scheduled plant and equipment spending in 1956 at a record $15.2 billion, one-third higher than in

—Continued on page 54

CYANAMID APPOINTEE: Thomas P. Turchan has been named assistant general manager of the industrial chemicals division of American Cyanamid Company, New York. He was formerly manager of manufacturing of the company's agricultural chemicals division.

Penicillin in Milk Grows as Problem In Public Health

Manufacturers and distributors of penicillin preparations for veterinary use may find the market for their products in the treatment of dairy cattle sharply curtailed by the government unless ways can be found for keeping the drug out of the nation's fluid milk supply.

The problem that has arisen from the almost unrestricted use of penicillin for treating dairy cows for mastititis was explored at length by officials of the Food and Drug Administration last week with a panel of medical experts at a conference attended by a number of the drug producers, veterinary representatives, food industry associations and others.

No Immediate Action

The all-day conference failed to produce any recommendation for immediate action by the government, but emphasized that the question of preventing the drug from showing up in milk is one of importance from the standpoint of public health and requires further study.

Several suggestions have been offered as a possible solution to the problem, including the following:—

- Addition of a dye to all mastitis preparations which will be excreted in the milk for approximately the same time as the penicillin.
- More stringent label warnings against using the milk for human consumption within seventy-two hours after the cow has been treated with the drug. This warning now appears on the drug circular, but not on the label itself.
- By regulation ban the use of penicillin from mastitis preparations.
- Withdraw the privilege of selling penicillin preparations for treatment of mastitis over-the-counter and permit its use only by veterinarians.
- A strong education program directed toward the milk producer concerning the seriousness of antibiotics in milk from the consumer's stand point.

The veterinary field has developed into one of the most important marketing outlets for the producers of penicillin preparations and whatever action may be taken by the FDA to meet the problem is certain to be felt. Exact figures are lacking, but it is estimated by FDA that more than 75 tons of antibiotics are used an-

—Continued on page 59

Dow's Expansion To Cost $75 Million

Dow Chemical Company, Midland, Mich., has embarked on another round of "vigorous expansion" and expects to spend considerably more than $75 million in the current fiscal year, Dr. Leland I. Doan, Dow president, told stockholders at the company's annual meeting last week.

Dr. Doan declared that an expansion program is necessary because "we are already crowding capacity in some of our basic building-block lines such as chlorine, bromine, ethylene, power and so on."

Higher Than Previous Years

The $75 million-plus proposed for expansion compares with about $60 million spent in fiscal 1956 and $50 million in 1955, he said.

The Dow president noted that some expansion now in progress will further decentralize the company's operations and said that centralization will be continued in the future whenever it best serves Dow's long range interests.

However, he added, the larger divisions will continue to grow because "you just can't stop a good division from growing." Some factors make decentralization a desirable step but in other cases it is better to expand existing plants, he pointed out.

New plant locations being developed in the current year include Plaquemine, La.; Lee Hall, Va.; Hanging Rock, Ohio, and Riverside, Mo.

Dr. Doan said that while the company's increase in earnings of nearly 60 percent in fiscal 1956 ended May 31st was "particularly pleasing," stockholders should not anticipate a similar percentage increase in fiscal 1957.

"In the two previous years we had some

—Continued on page 43

Chlorine-Caustic Unit Slated by Wyandotte

Construction of a large electrolytic chlorine-caustic soda manufacturing plant as the second major phase of its expansion into the south has been announced by Wyandotte Chemicals Corporation Wyandotte, Mich.

The plant will require an investment of upwards of $20 million, according to Robert B. Semple, Wyandotte president, and is scheduled to go on stream in the last half of 1958. The plant will produce 300 tons per day of chlorine and 330 tons per day of caustic soda.

The new unit, Mr. Semple said, will be constructed adjacent to the company's 60 million-pound ethylene-oxide plant on the 1,200-acre site acquired a few months ago

—Continued on page 43

DuPont Halts Expansion, Introduces New 'Teflon'

E. I. duPont de Nemours & Co., Wilmington, Del., has cancelled plans to add a sodium and chlorinated solvents unit to its Antioch, Calif., works.

After detailed studies, the company decided to cancel the addition for economic reasons, it was said. It was emphasized that this in no way affected the tetraethyl lead and "Freon" refrigerants phase of the Antioch operation.

"Freon" units are now going into production, and facilities for producing tetraethyl lead are scheduled for completion around the end of the year.

At the same time, duPont's polychemicals department announced the development of "Teflon 100-X," a perfluorocarbon resin which is being evaluated as a supplement to its present line of tetrafluoroethylene resins.

According to the company, the decision to produce commercial quantities will depend on the outcome of field tests, and such commercial production would not be available until 1959.

Aromatics Facility Planned by Ashland

Ashland Oil & Refining Company has announced plans to construct an aromatics plant and other auxiliary equipment at the 30,000 barrel-per-day Buffalo, N. Y., refinery of the company's Frontier Oil Refining Company division. The plant will have a capacity of approximately 21 million gallons per year of benzene, toluene, xylene, and other aromatics.

Feed stock for the unit will be supplied from the 7,500 barrel per day catalytic reformer now under construction and to be completed by the end of 1956. The design and engineering of the aromatics plant is completed and construction will start promptly with completion date estimated during the latter part of 1957.

Included are facilities for tanker and barge deliveries, as well as tankcar and transport truck, to serve the rapidly expanding industrial requirements in the Buffalo and Toronto areas and eastward along the St. Lawrence waterway and the New York State barge canal.

Potassium Pyrophosphate Made Commercially in West

Potassium phosphates in commercial quantities—said to be the first ever produced in the west—are now available from A. R. Maas Chemical Company, South Gate, Calif., a division of Victor Chemical Works.

With the production of anhydrous tetrapotassium pyrophosphate, Maas becomes the only western producer of these chemicals, which formerly were shipped from eastern manufacturing centers.

Spencer Antes $2.1 Million For Development Program

Kenneth A. Spencer, president of Spencer Chemical Company, Kansas City, Mo., has announced in his message to shareholders, that the company will spend more than $2.1 million in the current year on the related activities of research and development, market research, market development and product improvement.

Part of this program will be directed towards development of the low pressure polyethylene and polypropylene process which the company recently licensed from the Standard Oil Company (Indiana), Chicago.

Titanium Dioxide Set For Production Increase

American Cyanamid Company will expand production to 72,000 tons annually of "Unitane" titanium dioxide pigment at its Savannah, Ga., plant.

It is estimated that the new facilities will be in operation by early 1958, and will require approximately 250 additional employees. The plant is located on a 1,600-acre tract along two miles of riverfront. Cyanamid's "Unitane," first manufactured at Piney River, Va., was introduced to industry in 1938.

SOCMA to Aid Gov't With Cyclic Intermediates Data

A system for furnishing the customs authorities information on cyclic intermediates was initiated last week by the Synthetic Organic Chemical Manufacturers Association. John Fasoli, chairman of the association's customs committee, said at a news conference that the program would be similar to the highly successful one introduced a year ago for dyestuffs.

The purpose, he explained, is to assist the government in determining comparability of imports with domestic materials. Comparability is the standard used by the government to decide whether an import is dutiable.

Under the program, the association provides standardized forms on which manufacturers indicate essential properties, purposes and other data concerning materials which might be dutiable. In this manner, 4,500-5,000 dyestuffs have been classified by the government, as compared with less than 2,000 before the system was introduced.

A similar measure of success is expected for cyclic intermediates. A three-months deadline has been set for filing forms on major intermediates. Materials considered of lesser importance will be filed within six months, Mr. Fasoli said.

For domestic manufacturers both programs are on a voluntary basis. But under paragraph 28 of the tariff act, importers are required to furnish similar data on dyestuffs. This requirement does not apply to intermediates, although there is some possibility that the government will extend the regulation to include them, Mr. Fasoli said. He indicated that the association would welcome such a move as it would benefit all concerned by simplifying and facilitating the setting of tariff levels.

Hercules Planning to Enter Wood Naval Stores in Mexico

Hercules Powder Company, Wilmington, Del., has announced it will enter into the wood naval stores industry in Mexico for the recovery and utilization of pine stumps. Hercules' entry into this business was carried out through the acquisition of stock in Corbu Industrial, S.A., a Mexican corporation, the other stockholders of which are all Mexican citizens. This is Hercules' first manufacturing venture in Latin America, although the company for many years has had a host of customers south of the border for its chemical products.

CHEMICAL REPRESENTATIVE: Goodyear Tire & Rubber Company's chemical division has assigned Frank A. Mather as special representative to the Philadelphia district.

A new plant will be built near Ciudad Hidalgo, Michoacan, and will manufacture 25 million pounds of wood naval stores products a year. Main offices of Corbu will be in Mexico City.

Hercules, producer of hundreds of chemicals for industry in twenty-four plants within the United States, is reportedly the world's largest producer of wood naval stores.

30 Years Experience

Two plants in the United States—one Brunswick, Ga., and another in Hattiesburg, Miss., have been producing chemicals from pine stumps for more than thirty years.

The new Mexican venture will provide year-round employment for approximately 1,000 men, and will produce rosin, turpentine, pine oil, and other terpene chemicals, to be sold to Mexican industry and for export. Pine tar, a Corbu product since its inception in 1951, will continue to be made.

The new venture has been planned with the assistance of Nacional Financiera, a government-sponsored agency for financing new Mexican industries.

Ricardo B. Cordeiro, who founded Corbu Industrial in 1951, is general manager of the new and greatly expanded company resulting from Hercules participation.

The wood stump removal and utilization program will be carried out by Corbu in the State of Michoacan. The project

—*Continued on page 59*

Parke, Davis Labs Dedicated in Canada

Parke, Davis & Co., Ltd., reached a new high point in its seventy-year Canadian history last week when over 100 leaders of government, industry, pharmacy and medicine joined in dedicating the firm's new $2 million pharmaceutical laboratories in Brockville, Ont.

Parke-Davis President Harry J. Loynd said the opening of the laboratories is "the latest forward step" in meeting the firm's two-fold obligation to Canadian health needs. This obligation, he said, "is not only to make good products, but to have them in adequate supply, quickly, and ready for use, whenever and wherever they may be needed."

He pointed out that construction of the multi-million dollar laboratories was the fourth step taken within the past eighteen

—*Continued on page 59*

Carbide Advances Fumigant

Carbide & Carbon Chemicals Company, New York, a division of Union Carbide & Carbon Corporation, has advanced the price of its "Carboxide" fumigant 2 cents per pound on all quantities. This was the first increase on the item since the middle of 1952.

Peppermint, Spearmint Forecast Revised Upward

The Crop Reporting Board has raised its estimate of this year's production of peppermint and spearmint oils as a result of improved growing conditions during August. The new peppermint oil forecast is 2,230,000 pounds and the spearmint oil outturn is expected to be 757,000 pounds.

A month ago, the board estimated the peppermint crop at 2,173,000 pounds. The new higher estimate is about 15 percent more than the 1955 crop and about 40 percent greater than the 1949-54 average. The spearmint estimate is up 3 percent over the August forecast of 737,000 pounds and is 28 percent above the amount produced last year.

The board explained that higher yields of peppermint in the Pacific coast states more than offset a lower yield for Indiana, where production is not coming up to earlier expectations. In Michigan and Wisconsin, August weather generally favored peppermint growth. However, wet fields and poor curing weather have

—*Continued on page 75*

The Week's Price Changes

Egg Yolk, Blackstrap Molasses, Tapioca Flour Higher. Copra, Geraniol, Lard, Quinine Ethylcarbonate Lower.

Prices Advanced

Blood, N. Y., 50c. per unit-ton (p. 45).
Chicago, 50c. per unit-ton.
Cocoa butter, 1c. per lb. (p. 69).
Diethyl phthalate, ½c. per lb (p. 65).
Dimethyl phthalate, ½c. per lb. (p. 65).
Egg yolk, 4c. per lb. (p. 46).
Gum, dammar, Singapore No. 1, ¼c. per lb.
Greases, ¼c. per lb. (p. 69).
(p. 65).
No. 3, dust, ¾c. per lb.
Molasses, blackstrap, ½c. per gal. (p. 57).
Tallow, ¼c. per lb. (p. 69).
Tankage, N. Y., 25c. per unit-ton (p. 45).
Chicago, 50c. per unit-ton.
Tapioca flour, Braz., ¾c. per lb. (p. 46).
Tin metal, 7⅛c. per lb. (p. 41).
Salts, 2.7c. to 4.3c. per lb.
Wax, Japan, 1c. to 2c. per lb. (p. 69).

Prices Reduced

Atropine Sulfate, 20c. per oz. (p. 57).
Copra, $2.50 per ton (p. 69).
Dioctyl phthalate, 2c. per lb. (p. 65).
Di-iso-octyl phthalate, 2c. per lb. (p. 65).
Geraniol, 55c. per lb. (p. 63).
Geranyl, 40c. per lb. (p. 63).
Gum, Copal, Manila C, 1c. per lb. (p. 65).
DBB, ¾c. per lb.
Lard, cash, ½c. per lb. (p. 69).
Linseed meal, 50c. per ton. (p. 69).
Myrobalans, JI's gen., $1 per ton (p. 46).
Octyl-decyl phthalate, 1½c. per lb. (p. 65).
Oil, cod, ½c. per lb. (p. 69).
Corn, foots, 95%, ⅛c. per lb. (p. 69).
Lemon, 25c. per lb. (p. 63).
Oleo, ½c. per lb. (p. 69).
Palm, ½c. per lb. (p. 69).
Rapeseed, ½c. per lb. (p. 69).
Soybean, foots, 95%, ⅜c. per lb. (p. 69).
Quinine Ethylcarbonate, 4½c. per oz. (p. 57).
Hydrobomide, 2c. per oz. (p. 57).
Scopolamine, $4 per oz. (p. 57).
Shellac, orange grades, 1c. per lb. (p. 65).
Soybean meal, $2.50 per ton (p. 69).
Wax, candelilla, crude, 2c. per lb. (p. 69).
refd., 5c. per lb.
Yohimbine hydrochloride, 50c. per oz. (p. 57).

OPD Price Index

THE OIL, PAINT AND DRUG REPORTER'S relative record of prices of chemicals and related materials is currently as follows:—

(100=1949 average)

Sept. 14, 1956	Sept. 7, 1956	Sept. 16, 1955
108.65	108.77	106.53

Agriculture's New Roles Probed

Economic advantages to be gained from a broad program of research on new uses for agricultural products in industry were explored at a three-day conference last week with various industry groups by the Commission on Increased Industrial Uses for Agricultural Products. The five-man bipartisan commission heard a presentation by the research committee of the Corn Industries Research Foundation of detailed proposals for a number of research projects aimed at development of new methods for industrial utilization of the nation's corn crop.

The recommendations dealt primarily with potential new or expanded uses for starch and its derivatives in industry. Suggested lines of research included the possibilities of new uses for starch in the road-building program just getting under way, in textile produtcion, paper-making, and soil conditioners, and in the metallurgical industries.

A dozen or more research recommendations were outlined by the foundation representatives to the commission, a number of which will be discussed at the annual starch round table to be held this week by the foundation at Bedford, Pa. Others

—*Continued on page 68*

Railroads Asks the ICC To Okay Demurrage Rise

The class 1 railroads last week petitioned the Interstate Commerce Commission to vacate its order denying the railroads the right to increase demurrage charges sharply on freight cars and tank-cars. The charges currently are under investigation by the commission and will be subject to hearings next year.

The railroads have asked for approval of a new tariff schedule that would increase the charge to $4 a day for the first two days after the regular forty-eight hours of free time, $7 a day for the next two days and $10 a day thereafter. The present rate is $3 a day for the first four days after the free-time period and $6 a day thereafter.

BARD OFFICER: Bard Pharmaceuticals, Inc., Yonkers, N. Y., has made E. Richard Memoli vice-president and general manager. He will also have charge of the company's facilities expansion program.

Potash Co. Appoints

Potash Company of America, Washington, D. C., has named F. Edward Smith, jr., assistant to the vice-president in charge of sales. The company also announced that G. A. Woods has resigned.

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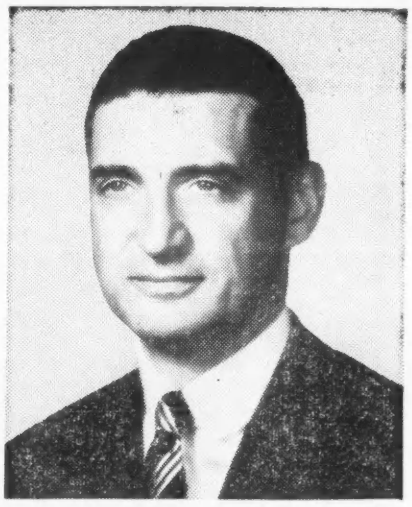


GRACE ELEVATES EXECUTIVES: Marlin G. Geiger (left) has been elected executive vice-president in charge of the chemical group composed of the W. R. Grace & Co.'s seven chemical divisions. He will be succeeded as president of Davison Chemical Company Division by William E. McGuirk, jr., (right) formerly executive vice-president of the Davison division.

Celanese Slates $100 Million For Expansion Over Five Years

Celanese Corporation of America, New York, foresees an annual sales level well in excess of $300 million by 1960, Harold Blancke, president, told members of the New York Society of Security Analysts in New York last week. Based on this figure, Celanese plans to invest expansion capital primarily for facilities of the company's chemical and plastics divisions, and will spend $100 million during the next five years mainly for this purpose.

In the case of the textile division, Mr. Blancke said, efforts will be principally concerned with stimulating sales and markets to bring existing facilities up to 100 percent capacity operations.

Celanese estimates that its $100 million expenditure on expansion during the next five years will generate additional annual sales of $125 million.

Has Larger Scope

From originally a supplier of chemicals for other divisions of the company, the Celanese chemical division has broadened its market base to develop external markets and achieve greater autonomy, Mr. Blanke said. Less than 25 percent of the division's 1956 sales will be internal and the proportion of external sales is expected to increase.

The division is now marketing over forty chemicals and about 40 percent of current sales comes from products introduced since 1949. A new plant in Point Pleasant, W. Va., which started production in April, is making fire-resistant hydraulic fluids and has processing equipment for production of chemicals for plastics, textiles, automotive specialties and diverse industrial applications.

In plastics, this year's sales are currently running about 10 percent above the level of 1955, which was a record sales year for the Celanese plastics division.

One important product contributing to higher volume is "Forticel," a cellulose propionate molding material introduced

—*Continued on page 50*

LAB MAN: Dr. James D. Gallagher has been named assistant to the director of laboratories, research division, American Cyanamid Company, at Lederle Laboratories, Pearl River, N. Y.

TVA Testing Out Liquid Plant Foods

Tennessee Valley Authority now is producing liquid fertilizers on an experimental basis and on a pilot-plant scale. Productive capacity is about ten gallons an hour and the entire output is being used in tests and experiments.

TVA said that of the liquids undergoing tests, "superphosphoric acid," appears to have unusual possibilities. It is between 40 and 50 percent more concentrated than the phosphoric acid commonly being produced for fertilizer or chemical use. The superphosphoric acid will make a liquid fertilizer containing considerably more

—*Continued on page 54*

Monsanto Canada Finishes Resin Plant, Sets Up Unit

Monsanto Canada, Ltd., Montreal, Canada, has completed its synthetic resin plant at Clover Bar, Alta., Canada. Production of phenolic and urea resins is now under way.

At the same time, Monsanto Canada and Shoe Corporation of America have announced the formation of United Shoe Plastics, Ltd. The headquarters for the new company will be in Midland, Ont., and will lease office and manufacturing space from Shoe Corporation of Canada.

Dye Industry Is Called Key To Various Phases of Economy By Lehner at Perkin Fete

"The American dye industry is a key industry that launched the coaltar chemicals industry, gave impetus to the various color-consuming industries and was also the forerunner of America's vast synthetic organic chemicals industry which annually turns out some $4 billion worth of products and provides employment for upward of 300,000 men and women." This, according to Samuel Lehner, vice-president of E. I. duPont de Nemours & Co., Wilmington, Del., in an address presented last week at the Perkin Centennial celebration in New York, is part and parcel of the debt the United States owes to William Henry Perkin, the discoverer of the first dye synthesis.

His Other Contributions

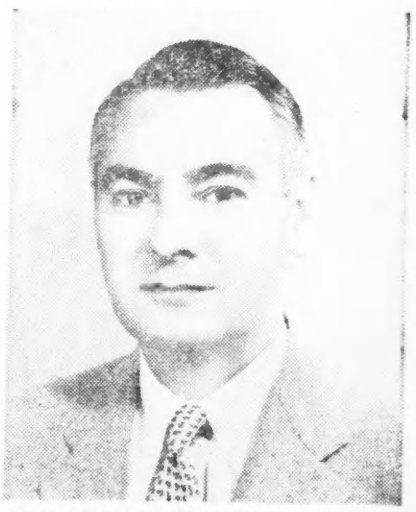
Further contributions made in the United States by the industry founded by Perkin have been, according to Mr. Lehner:—

- "Stimulation of higher education in chemistry and related fields.
- "Development of a nucleus of highly trained men and women who, because of their training, versatility and broad chemical experience, would be well nigh indispensable to our country's security in the event of a national emergency.
- "The discovery of wide, varied and strategic uses which have been found for dyes and the thousands of dye intermediates and other complex, synthetic organic chemicals in industry—chemicals once derived exclusively from coaltar, but in many cases now derived from petroleum also.

"Included among the numerous offsprings of this industry are such important, and in some cases virtually indispensable products as DDT, methoxychlor, and other chemicals for the control of mosquitoes, flies, and other disease-bearing insects; synthetic elastomers, such as the new polyurethane rubbers based on organic diisocyanates which in turn are derived from aromatic diamines formerly used only as dye intermediates," Mr. Lehner said

The country is further indebted to Perkin's discovery for the hundreds of life saving drugs which are based on dye intermediates and other synthetic organic chemicals, Mr. Lehner said.

Included among other important drugs and pharmaceuticals based on dye intermediates or other synthetic organic chemicals are improved antiseptics; safe and effective sedatives and pain killers; antihistamines for the control of hay fever and other allergic conditions; non-habit forming anesthetics, both local and general; antimalarials; fungicides for the control of various skin infections; and drugs which have proved effective in the treatment of the age-old disease of leprosy, he concluded.



OLIN RESEARCH SPECIALIST: Dr. Sylvan I. Cohen has joined Olin Mathieson Chemical Corporation as an agricultural research specialist in the research and development department of the insecticides division at Port Jefferson, N.Y. He was formerly vice-president for research for Gallowhur Chemical Corporation.

Olin Revere Metals Corp. Buys Louisiana Plant Site

Olin Revere Metals Corporation, a jointly-owned subsidiary of Olin Mathieson Chemical Company and Revere Copper & Brass Company, has purchased 4,100 acres of land on the Mississippi River near Burnside, La., for the construction of a $50 million alumina plant.

The new unit will produce 345,000 tons of alumina a year from 700,000 tons of bauxite ore shipped to the plant from Surinam, Dutch Guiana.

Copper Salt Output Starts

Metalsalt Chemicals, Inc., has started operations at its Atlanta, Ga., plant producing a high grade cuprous chloride. Commercial quantities of this grade cuprous chloride are now available.

Perkin Conclave Hears Nobel Winner

Sir Robert Robinson, Nobel Prize winner for chemistry, professor emeritus of Oxford University and a director of Shell Chemical Corporation, delivered the principal address of International Day opening the Perkin Centennial, at the luncheon session last week in the Waldorf-Astoria hotel, New York.

Crawford H. Greenewalt, president of E. I. duPont de Nemours & Co., Wilmington, Del., introduced Sir Robert.

Co-sponsors of International Day were the American Standards Association and the International Organization for Standardization. The ASA and the ISO joined with twenty-six technical, chemical, and scientific societies in the week-long tribute to Sir William Henry Perkin, who created

—*Continued on page 49*

Liquid Alum Plant Is Opened by Cyanamid

A new plant for liquid alum production was opened recently at Plymouth, N. C., by American Cyanamid Company, New York.

Construction began in March, and the first alum shipment made in late July. The plant is now operating at scheduled production to service the paper mills in the North Carolina-Virginia area.

Oak Ridge Completes 10 Years in Isotopes

Oak Ridge National Laboratory has completed its first ten years of producing and distributing radioisotopes for use in medicine, industry and agriculture.

The laboratory, which is operated for the Atomic Energy Commission by Union Carbide Nuclear Company, a division of Union Carbide & Carbon Corporation, made its first shipment of a fission-produced radioisotope on August 2, 1946.

The shipment consisted of a small unit of carbon-14 which went to the Barnard Free Skin and Cancer Hospital in St. Louis, Mo.

Wages on Government Work Getting Upward Revision

Minimum wages paid workers in the chemicals and applied products industries engaged in government contract work under the Walsh-Healey public contracts law will rise to the statutory $1 an hour provided for in the fair labor standards law with respect to all government supply contracts over $10,000 after October 7.

In most instances it will mean no more than a change in the language of the contract, but in some instances the minimum is being raised to more than $1 an hour which may require some adjustments in the wages being paid.

Among the industries mentioned in the order of Secretary of Labor James P. Mitchell establishing the new prevailing wage minimum are the drug, medicine, and toilet preparations and cosmetic industry, the paint and varnish industry, and the industrial and refined basic chemical products branch of the chemical and related products industry, soap industry, and the fertilizer industry.

In the paint and varnish industry and the industrial and refined basic chemical products branch of the chemical and related products industry, differentials are provided for in the order for the minimums paid in the north and other sections of the country and those paid in the south.

In the case of the paint and varnish industry the prevailing minimum is to be $1.05 an hour except in the states of Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas and Virginia where the $1 minimum is to prevail.

As regards the industrial and refined basic chemicals products industry, the prevailing minimum is to be $1.15 an hour in all states except Maryland, Virginia, North Carolina, South Carolina, Tennessee, Arkansas, Mississippi, Alabama, Georgia, Florida, and the District of Columbia.

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Association Meetings

American Chemical Society, national meeting, Atlantic City, N. J., September 16-21.

American Society for Testing Materials, Pacific area national meeting and apparatus exhibit, Statler hotel, Los Angeles, September 16-22.

Federal Wholesale Druggists' Association, annual convention, Greenbrier hotel, White Sulphur Springs, W. Va., September 16-19.

Fragrance Foundation, annual convention, Savoy Plaza hotel, New York, September 20.

National Association of Retail Druggists, annual convention, Netherlands Plaza and Sheraton-Gibson hotels, Cincinnati, Ohio, September 17-21.

National Industrial Conference Board, marketing conference, Waldorf-Astoria hotel, New York, September 19-21.

Air Pollution Control Association, semi-annual meeting, Rice hotel, Houston, Tex., December 3-5.

American Coke and Coal Chemicals Institute, annual meeting, Greenbrier hotel, White Sulphur Springs, W. Va., October 22-23.

American Oil Chemists' Society, Sherman hotel, Chicago, September 24-26.

Association of American Feed Control Officials, annual meeting, Shoreham hotel, Washington, D. C., October 17-18.

Association of American Fertilizer Control Officials, annual meeting, Shoreham hotel, Washington, D. C., October 19.

Association of American Pesticide Control Officials, annual meeting, Shoreham hotel, Washington, D. C., October 20.

Association of Consulting Chemists and Chemical Engineers, annual meeting and symposium, Belmont Plaza hotel, New York, October 23.

Association of Official Agricultural Chemists, annual meeting, Shoreham hotel, Washington, D. C., October 15-17.

Antibiotics Annual Symposium, Willard hotel, Washington, D. C., October 17-19.

Chemical Market Research Association, Chateau Frontenac, Quebec, Canada, September 26-28.

Combined Pharmaceutical Contact Committee of American Drug Manufacturers Association and American Pharmaceutical Manufacturers Association, fall meeting, Washington hotel, Washington, D. C., October 23-24.

Commercial Chemical Development Association, Terrace Plaza hotel, Cincinnati, Ohio, November 1.

Drug, Chemical and Allied Trades Section of the New York Board of Trade, annual outing, Pocono Manor Inn, Pocono Manor, Pa., September 27-29.

Federation of Paint and Varnish Production Clubs, annual meeting and paint industries' show, Netherlands Hilton hotel, Cincinnati, Ohio, October 21-24.

National Paint, Varnish and Lacquer Association, annual convention, Statler, Ambassador and Biltmore hotels, Los Angeles, November 12-14.

National Pest Control Association, annual convention, Detroit, Mich., October 22-25.

Pharmaceutical Council of Greater New York, drug, cosmetic and sundry show, Statler hotel, New York, September 23-25.

Salesmen's Association of the American Chemical Industry, sales clinic, Commodore hotel, New York, October 15.

Society of Cosmetic Chemists, annual scientific forum, Barbizon Plaza hotel, New York, October 4-5.

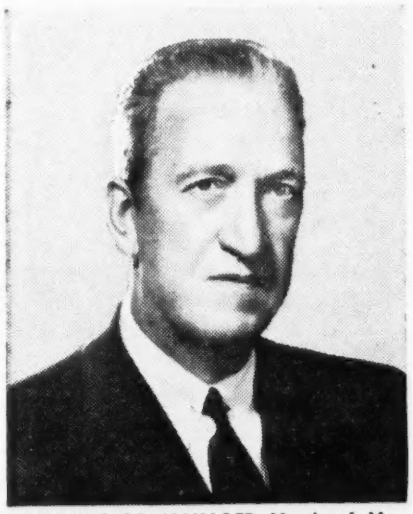
Synthetic Organic Chemical Manufacturers Association, monthly luncheon, Roosevelt hotel, New York, October 9; annual meeting and dinner, Biltmore hotel, New York, December 3

Technical Association of the Pulp and Paper Industry, national plastics-paper conference, Institute of Paper Chemistry, Appleton, Wis., October 3-4.

Trade Fair of the Atomic Industry, Navy Pier, Chicago, September 24-28.

ASTM to Hear Top Speakers As Calif. Meeting Opens Today

Leaders in engineering, science, industry, and national defense will be featured speakers at one national and seven industry Luncheons to be held at the American Society for Testing Materials' 2nd Pacific Area National Meeting, Statler hotel, Los Angeles, beginning today. The president's national luncheon, honoring ASTM president R. A. Schatzel, will be held on Wednesday. Dr. Schatzel has distinguished himself with more than one-quarter century in research and development work on electrical cable installations, particularly rubber and plastics. His short address will be entitled "Where Do We Go From Here?"



DARLING & CO. MANAGER: Maurice J. McCarthy, formerly with A. Gross & Co. and Acme-Hardesty Company, has been named eastern district sales manager for the handling of the fatty acids line of Darling & Co., Chicago.

Lt. Gen. Clarence S. Irvine, Deputy Chief of Staff (Materiel), United States Air Force, will be the special guest of honor at the president's Luncheon and will deliver the principal address entitled "Super Materials for Super Performance."

ASTM past president, N. L. Mochel, metallurgical manager and consultant, Westinghouse Electric Corporation, Philadelphia, will be the toastmaster; and senior vice-president, R. T. Kropf, director of research, Belding Hemingway Company, New York, will introduce president Schatzel.

The petroleum industry luncheon will be held today. Howard C. Vesper, vice-president, Standard Oil Company of California, San Francisco, will be the guest

—*Continued on page 55*

Chemical History Medal Will Go to Dr. Oesper

Dr. Ralph E. Oesper, professor emeritis of chemistry at the University of Cincinnati, has been named the first recipient of the new Dexter Chemical Corporation award in the history of chemistry.

The prize, which is administered by the American Chemical Society's division of history of chemistry, will be conferred next Wednesday during the Society's 130th national meeting in Atlantic City, N. J.

Waste Treatment Data Made Available

The data and information that will be required by the Department of Health, Education and Welfare, in passing on the applications of municipalities and other public bodies for a share of the federal funds made available by congress last session for building waste treatment facilities was outlined last week by G. E. McCallum, chief of the water supply and water pollution control program, Public Health Service.

Congress made available $50 million in the form of grants to aid in the build-

—*Continued on page 55*

SAACI Has Defense Official Scheduled as Its Main Speaker At Fifth Annual Sales Clinic

Plans have been drawn up for the fifth annual Chemical Sales Clinic, it has been announced by Preston F. Tinsley. The one-day event, sponsored by the Salesmen's Association of the American Chemical Industry, will be held October 15 at the Commodore hotel, New York. Mr. Tinsley, assistant sales manager of Westvaco Chlor-Alkali Division, Food Machinery & Chemical Corporation, New York, heads up SAACI's five-man sales clinic committee.

Featured speaker at the meeting will be Carter L. Burgess, assistant Secretary of Defense. He will address the luncheon on the topic "Defense Needs Technicians, Too."

'Planning Ahead'

Leading off the morning session will be Werner C. Brown, director of sales for the cellulose products department of Hercules Powder Company, Wilmington, Del. Mr. Brown will discuss "Planning Ahead for Your Sales Day."

A general traffic manager, C. H. Beard of Union Carbide & Carbon Corporation, New York, will report on "The Traffic Department as an Arm of the Sales Department."

"Creative Ideas for Making a Sale" will be outlined by J. Douglass Kirk of Sales Analysis Institute of Illinois, Chicago.

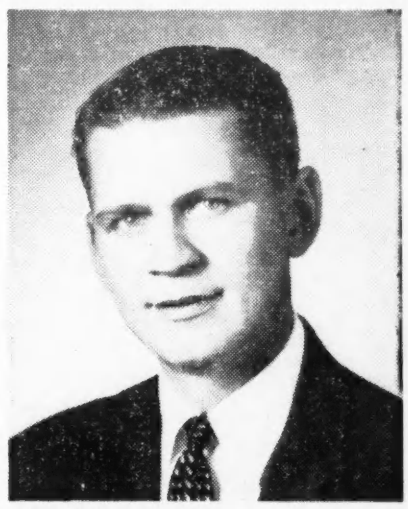
Concluding Speaker in the morning will be Francis J. Curtis, vice-president for personnel and a member of the board of directors of Monsanto Chemical Company, St. Louis, Mo. Mr. Curtis will draw a "Blueprint for Personal Development."

The clinic program in the afternoon will be given over to three concurrent panel discussions.

The first will cover "The Supervision of Salesmen Without Interference." Moderator of this discussion will be James A. Singmaster, jr., New York district sales manager for Monsanto's organic chemicals division. Participating in the panel will be:

Raymond C. Tower, sales manager for the phosphate division of FMC's Westvaco Mineral Products Division, New York; D. P. Jones, New York district manager

—*Continued on page 55*



ADM SALES OFFICIAL: Jay C. Hjortland has been named sales manager of the packaged linseed oil department of Archer-Daniels-Midland Company.

Organic Chemicals Still In Infancy, Says Bauman

Despite the tremendous strides made by the organic chemical industry in forty years of existence in this country, it has only scratched the surface in the development of new products, Dr. William C. Bauman, director of research, chemical departments, Dow Chemical Company, Midland, Mich., told a luncheon meeting of the Synthetic Organic Chemical Manufacturers' Association last week.

In talking of the new potentials now being opened by organic chemical research, Dr. Bauman cited new discoveries in the fast-growing plastics industry. Newly-developed polymers, new knowledge in manufacturing fabrics of controlled weave, and the use of high energy radiation to improve plastics materials are only a few developments which promise to increase the plastics potential, he said.

The development of new metallic compounds, the knowledge of controlling metallic content, and improved refining methods, he said, show new promise for the organo-metallics field.

Dr. Bauman stated that an improved cracking process in the petroleum industry has resulted in an increase in supplies of aromatics and a widening of petroleum sources, offering a bright future for the raw material supply situation.

Tariff, Trade Probe On

An investigation ordered last session by congress of the government's program and policy on tariffs and reciprocal trade will open today before a subcommittee of the house ways and means committee, headed by Rep. Hale Boggs of Louisiana.

Oil Chemists Group To Meet Sept. 24-26

Nearly seventy papers will be presented in concurrent sessions at the thirtieth annual fall meeting of the American Oil Chemists' Society. Major topics will be oil modification, analytical work, safety, nutrition, processing, and synthetic detergents.

The meeting will be held at the Sherman hotel, Chicago, September 24 through 26. A. F. Kapecki of Wurster & Sanger, Inc., and C. W. Hoerr of Armour & Co., are co-chairmen, with A. V. Graci, jr., also of Wurster & Sanger, as program chairman. Paul Soderdahl, Hart & Harrington, Inc., is chairman of exhibits.

To be announced at this fall meeting is the name of the winner of the $500 award competition, established for the best manuscript by the fatty acid producers' division of the Association of American Soap and Glycerine Producers, and administered by the American Oil Chemists' Society. H. C. Black, Swift & Co., Chicago, is chairman of the award committee.

Potatoes Into Starch Urged by Farm Group

A program of diversion of low-grade potatoes into starch manufacture was urged on the Department of Agriculture last week by the American Farm Bureau Federation.

Charles B. Shuman, president of the Farm Bureau, said that potato prices have been dropping rapidly and a diversion program similar to the one employed in the marketing of the 1955 crop is advisable.

The September 1 crop report of the Department of Agriculture estimated 1956 potato production at about 6 million hundredweight larger than last year. The fall crop is expected to be about 8 million hundredweight larger than last fall's crop.

Moisture in Acetylation of Cotton Investigated by USDA

Moisture content and moisture sorption history play an important part in determining the reactivity of cotton acetylated by the acetic anhydride-pyridine method, according to studies carried out by Department of Agriculture scientists.

Results of these studies were published recently by Florine A. Blouin, R. E. Reeves, and C. L. Hoffpauir, of the Southern Utilization Research Branch of the Agricultural Research Service.

Raw cotton which had been dried prior to treatment with pyridine and acetic anhydride showed little reactivity until 8 to 10 percent moisture had been absorbed. Degree of acetylation increased rapidly until the moisture content reached 20-22 percent. Further increases in moisture content had little effect on the extent of acetylation. Raw cotton soaked in water showed no decrease in reactivity until the moisture content was reduced to about 10 percent, after which the acetyl content decreased rapidly with loss of moisture.

Effects of several pretreatment agents were investigated. Treatment with sodium hydroxide in concentrations of 15 percent and higher increased reactivity of cotton to acetylation, a property retained to a considerable extent even when the cotton was dried after the alkali treatment and before acetylation.

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CHEMICALS AND RELATED MATERIALS

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Current MARKET Quotations

Unless otherwise indicated, listings are first-hand quotations prevailing, according to information and belief, September 14 on large lots, f.o.b. New York, with the lowest in the left-hand column and the highest in the right-hand column. The listings do not represent bid and asked prices nor a range over the week. Differences between high and low may be accounted for by differences in quantity, quality, locality, or individual suppliers' views. An index to the weekly market reports is to be found on page 4.

A

Acacia (see Gum arabic).

Acenaphthene, below 92.5 C., m.p., dms., works lb. .40 - —
above 92.5 C., m.p., bbls., dms., lb. .41 - .50

Acetaldehyde, 99%, dms., c.l., dlvd. lb. .12 - —
l.c.l., dlvd ..... lb. .13½ -
tanks, dlvd ..... lb. .10 - —

Acetaldol (see Aldol).

Acetanilide, tech., flaked, bbls., bgs., c.l., frt. alld lb. .29 - —
ton lots lb. .30 - —
smaller lots ..... lb. .33 - —
USP bbls., 2,000-lb. lots ..... lb. .80 - —
smaller lots ..... lb. .81 - .88

Acetic anhydride, dms., c.l., dlvd E. lb. .16½ - —
l.c.l., dlvd, E ..... lb. .17 - —
tanks, dlvd, E ..... lb. .14 - —

Acetoacetanilide, fib., dms., c.l., dlvd lb. .80 - —
l.c.l., dlvd ..... lb. .81 - —

Acetoacet-o-chloroanilide, fib., dms., c.l., dlvd 1.35 - —
l.c.l., dlvd ..... lb. 1.36 - —

Acetoacet-o-toluidide, fib., dms., c.l., dlvd.. lb. .82 - —
l.c.l., dlvd ..... lb. .83 - —

Acetone, CP, dms., c.l., dlvd.... lb. .10½ - —
l.c.l., dlvd ..... lb. .11½ - —
tanks, dlvd ..... lb. .08 - —
Methyl (see M).

Acetonitrile, dms., c.l., works.... lb. .45 - —
l.c.l., works ..... lb. .47 - —

Acetophenetidin, USP, bbls., works, frt. equald lb. 1.17 - 1.19

Acetophenone, cns., dms ..... lb. 1.21 - 1.85
tech., dms., l.c.l., works ..... lb. .75 - —

N-Acetyl-p-aminophenol, dms., frt. adjusted lb. 1.75 - 1.85

Acetyltributyl citrate, tech., non-ret. dms., c.l., frt. alld. E. of Denver lb. .36 - —
l.c.l., frt. alld. E. of Denver lb. .35 - —
tanks, frt. alld. E. of Denver, lb. .33 - —

Acetyltriethyl citrate, tech., non-ret. dms., c.l., frt. alld. E. of Denver lb. .39 - —
l.c.l., frt. alld E. of Denver, lb. .40 - —
tanks, frt. alld. E. of Denver, lb. .37 - —

Acetyltri-2-ethylhexyl citrate, non-ret. dms., frt. alld lb. .60 - —

Acid, abietic, coml., dms., c.l., works lb. .12 - —
l.c.l., ex whse ..... lb. .1490 - —
cryst., dms., c.l. works ... lb. .06½ - —
l.c.l., works ..... lb. .07 - .07½

Acetic, coml., or redist., 28%, bbls. 100 lbs. 4.80 - —
56%, bbls ..... 100 lbs 8.25 - —
70%, bbls ..... 100 lbs. 9.95 - —
80% bbls ..... 100 lbs. 10.45 - —
glacial, syn., CP, dms., dlvd. 100 lbs. 22.00 - 23.00
tech., dms., c.l., dlvd ..... 100 lbs. 13.75 - —
l.c.l., dlvd. ..... 100 lbs. 14.25 - —
tanks, dlvd ..... 100 lbs. 10.00 - —
USP cbys., inclusive, dlvd., 100 lbs. 31.00 - 32.00

Acetic anhydride (see Acetic anhydride above).

Acetylsalicylic, USP, special, makers, primary distrib., bbls., 1,000-lb. lots, point of shipt lb. .61 - —
standard, fine, cryst., gran., (30-40 mesh) powd., (60 mesh) bbls., 1,000-lb. lots. lb. .56 - .53

Freight equald, shipt. identical quantity over standard routes, from N. Y., Phila., Midland, Mich., Chicago and St. Louis.

Adipic, bgs., c.l., dlvd ..... lb. .32 - —
l.c.l., dlvd ..... lb. .34¾ - —

Aminoacetic, NF, bbls., frt. adjusted lb. 1.50 - 1.75

p-Aminobenzoic, tech., dry, dms., works lb. 1.74 - 1.77
USP, dms., 1,000-lb. lots or more, works lb. 2.50 - —
smaller lots, works ..... lb. 2.55 - 2.60

p-Aminosalicylic, dms., 100 lbs or more, frt. adjusted lb. 3.70 - —

Anthranilic, 99%, 150-lb. dms., dlvd. lb. 1.10 - —

Arsenous, tech. (see Arsenic, white). USP (see Arsenic trioxide).

Ascorbic USP, dms., 25-100 kilo lots kilo 12.00 - —
10-kilo lots ..... kilo 12.35 - —
5-kilo lots ..... kilo 12.75 - —
bots. 1-kilo lots ..... kilo 13.00 - —
500-gram lots ..... kilo 13.50 - —

Battery, cbys., c.l., works, E. 100 lbs. 2.35 - —
l.c.l., works, E ..... 100 lbs. 2.65 - 3.45

Acid, benzoic, tech., bbls., dms., 100-lb lots or more lb. .44 - —
USP, bbls., dms., 100-lb. lots or more lb. .54 - —

Betahydroxynaphthoic (see Acid, b-Oxynaphthoic).

Betaoxynaphthoic (see Acid b-Oxynaphthoic).

Boric, tech., 99.9%, cryst., bgs., c.l., works ton 126.75 - —
ton lots, ex whse, N. Y. or Chi ton 176.50 - —
smaller lots, same basis. ton 181.50 - —
dms., c.l., works ton 151.25 - 172.25
ton lots, ex whse, N. Y. or Chi ton 201.00 - 222.00
smaller lots, same basis. ton 206.00 - 227.00
gran., bgs., c.l., works ton 101.75 - —
ton lots, ex whse, N. Y. or Chi ton 151.50 - —
smaller lots, same basis. ton 156.50 - —
dms., c.l., works ton 126.25 - 147.25
ton lots, ex whse, N. Y. or Chi ton 176.00 - 197.00
smaller lots, same basis. ton 181.00 - 202.00
bulk, c.l., works ton 95.75 - —

Acid, boric, tech., 99.9%, powd., bgs., c.l., works ton 106.75 - —
ton lots, ex whse, N. Y. or Chi ton 136.50 - —
smaller lots, same basis. ton 161.50 - —
dms., c.l., works ton 131.25 - 152.25
ton lots, ex whse., N. Y. or Chi ton 151.00 - 202.00
smaller lots, same basis. ton 186.00 - 207.00

Boric acid in kegs $45.50 per ton higher than in paper bgs. USP boric Acid $25 per ton higher

Broenners, bbls ..... lb 1.76 - —

Butyric, 99%, dms., c.l., works lb. .34 - —
l.c.l., works ..... lb. .34½ - —
tanks, works ..... lb. .32½ - —

Capric, dms ..... lb. .25 - .27

Caprylic, dms ..... lb. .25 - .27

Cassella, dms, frt alld., 100% basis lb. 1.44 - 1.75

Castor oil, dms ..... lb. .17¾ - .19¾

Chicago paste, bbls., frt. alld lb. 3.21 - —

Chloroacetic, mono, purif., flake, 99% dms lb. .23½ - .25½
tech., flake, 96-97%, dms., frt. equald lb. .20 - .21

o-Chlorobenzoic, fib dms., c.l., works lb 1.10 - —
smaller lots, works lb 1.25 - —

Acid, p-chlorobenzoic, fib, dms., 2,000 lbs. or more, works lb. 2.25 - —
less than 2,000 lbs., same basis. lb. 2.30 - —

Chlorosulfonic, dms., c.l., frt. equald lb. .0465 - —
l.c.l., frt. equald ..... lb. .0515 - —
tanks, frt. equald ..... lb. .0415 - —
Acid, chlorosulfonic, in stainless steel dms. ½c. per lb. higher.

Chromic, 99¾%, dms. c.l., works, frt. equald lb. .28½ - —
l.c.l., dlvd., N. Y. metropolitan area lb. .29 - .30
NF (see Chromium trioxide).

Cinnamic, refd., bots. ..... lb 2.50 - 3.50

Citric, USP, anhyd., gran., fine gran., bgs., dms., c.l. lb. .29½ - .30
10,000-lb lots, 1 shipt. lb. .30 - .30⅛
smaller lots ..... lb. .30½ - .31
hydrous, gran., fine gran., bgs., dms., c.l lb. .27½ - .28
10,000-lb lots, 1 shipt. lb. .28 - .28⅛
smaller lots ..... lb. .29 - .29⅛
Powdered citric acid ½c. higher

Cleve's, mixed, bbls ..... lb. .79 - —

Coconut oil, dist., dms ..... lb. .25 - .27
tanks ..... lb. .23 - —
dbl. dist., dms ..... lb. .23 - .27
tanks ..... lb. .23 - .24

Corn oil, dist., dms ..... lb. .16¾ - .18¾
tanks ..... lb. .14¾ - —

Cottonseed oil, dist., dms ..... lb. .15¾ - .17¾
tanks ..... lb. .13¾ - —

2,3-Cresotic, dms., ton lots, works, lb. .70 - —
less than ton lots, works lb. .72 - —

Cresylic, oallor, dom., resin and tricresyl phosphate grade, 50%, 207° or above, tanks, frt. equald gal. 1.10 - —
204° to 207° C., tanks, frt. equald gal. 1.20 - —
non-resin grade, 50%, 210° or above, total range over 9° C., dms., c.l., frt. equald, gal. 1.15 - —
l.c.l., frt. equald gal. 1.19 - 1.20
tanks, frt. equald gal. 1.00 - —
imp., 75% at 215° C. or over, dms., ex whse gal. .95 - —
petroleum, dom., 195° to 214°C., non-ret. dms., 65 to c.l., works, San Francisco and Los Angeles gal. .80 - —
l.c.l., same basis gal. .82 - .84
tanks, same basis gal. .65 - —
200° C. to 222° C., tanks, Wilmington, Cal lb. .65 - .72
211° C. to 237° C., non-ret. dms., c.l., San Francisco and Los Angeles gal. .76 - —
l.c.l., same basis gal. .78 - .80
tanks, same basis gal. .61 - —
220° C. to 242° C., tanks, Wilmington, Cal lb. .62 - .67
245° C. to 265° C., tanks, Wilmington, Cal gal. .50 - —

Crotonic, fib. dms., 200 lbs. or more, works lb. .50 - —

Cyanoacetic, tech., bbls. ..... lb. .90 - 1.25

Dichlorophenoxyacetic (see 2,4-D).

Diethylbarbituric (see Barbital).

Diglycolic, bgs., works ..... lb. .14 - —

Dithiodibenzoic, dms., 1,000-lb. lots, works lb. 1.45 - —

2-Ethyl hexoic, dms., c.l., dlvd. lb. .37 - —
l.c.l., dlvd ..... lb. .38 - —
tanks, dlvd ..... lb. .34½ - —

F, crude, paste, bbls, works lb. 2.10 - —

Folic, bots fin cus kilo-lots or more gram 1.40 - —

Formic, 85%, cbys., c.l. works lb. .1570 - —
l.c.l., works ..... lb. .1620 - .1720
90%, cbys., c.l. works ..... lb. .1625 - —
l.c.l. works ..... lb. .1673 - .1775

Fumaric, tech., bgs., dms., c.l., frt. alld. E lb. .25½ - —
l.c.l., same basis ..... lb. .26½ - —

Gallic, NF VII, bbls, 1,000-lb lots ..... lb. 1.90 - —
smaller lots ..... lb. 1.82 - 2.00
tech., bbls., 1,000-lb lots ..... lb. 1.56 - —
smaller lots ..... lb. 1.82 - 2.00

Gamma, dr., grd. bbls. frt. alld. lb. 1.50 - —
paste, bbls. frt alld ..... lb 1.45 - —

Gentisic, 100-lb fib dms ..... lb 8.50 - —

Gluconic, tech., 50% bots ..... lb. .23 - .35
cbys ..... lb. .19 - —
dms. ..... lb. 15¼ - —

l-Glutamic, 99½% fib dms., 100-lb. lots, works lb. 2.00 - —
25-lb lots, works lb. 2.03 - —

Glycolic (see Acid hydroxyacetic).

H, dry, bbls., c.l., works, 100% basis lb. 1.00 - —
l.c.l., same basis ..... lb. 1.02 - —

Hydriodic, 1.56 s.g., cbys ..... lb. 2.94 - —
1.70 s.g., cbys ..... lb. 3.23 - —

Hydrobromic, medicinal, 48%, cbys., dlvd. E lb. .37 - .43

Hydrochloric, anhyd. (see Hydrogen chloride).

18° cbys., c.l., works ... 100 lbs. 2.50 - —
l.c.l., dlvd., Metropolitan area 100 lbs. 2.90 - 3.03
tanks, works, frt. equald ton 28.00 - —
20° cbys., c.l., works ... 100 lbs. 2.75 - —
l.c.l., dlvd., Metropolitan area 100 lbs. 3.15 - —
tanks, works, frt. equald ton 30.00 - —
22°, cbys., c.l., works ... 100 lbs. 3.25 - —
l.c.l., dlvd., Metropolitan area 100 lbs. 3.65 - —
tanks, works, frt. equald ton 35.00 - —
CP, USP, consumers, cbys., extra, c.l., works lb. .15¾ - —
l.c.l., same basis ..... lb. .17¼ - .17¾
5-pint bots, extra, cs., c.l., same basis lb. .20¾ - —
l.c.l., same basis lb. .22¼ - .23¼
Acid, hyrdochloric, CP, USP, prices to dealers 1½c. per lb. less.

Hydrocyanic, cyls., c.l., dlvd ... lb. .70 - —
l.c.l., same basis ..... lb. .75 - .90
dilute, NF, 2%, 5-lb. bots ... lb. .40 - —

Hydrofluoric, anhyd. (see Hydrogen fluoride), aqueous, tanks, works ..... lb. .21 - —
70%, steel, dms., works ... lb. .18½ - .22½

Hydrofluosilicic, dms., works, 30% basis lb. .06 - —

Hydroxyacetic, tech., 70%, non-ret. bbls., Phila., 100% basis lb. .136 - —
tanks, Belle, W. Va., 100% basis lb. .095 - —

Hypophosphorus, purif., 50% cbys lb. 1.30 - 1.32

USP, cbys ..... lb. .86 - —

Isonicotinic, 100-lb fib. dms., works lb. 4.25 - —
Hydrazide (see Isoniazid).

Itaconic, tech., fib. dms., c.l., works lb. .43 - —
l.c.l., works ..... lb. .44 - —
purif., fib. dms., c.l., works lb. .53 - —
l.c.l., works ..... lb. .54 - —

J, paste, bbls., works, 100% basis, lb. 2.45 - —
powd., bbls., same basis lb. 2.30 - 2.85

Koch, bbls., frt. alld., 100% basis, lb. 1.00 - —

L, bbls. works lb. 1.25 - —

Abbreviations

Used in OPD Market Quotations

alld.	allowed	distr.	distributor	NNR	New and Nonofficial Remedies
amorph.	amorphous	djns.	demijohns	No.	number
AMP	American melting point	divd.	delivered	nom.	nominal
anhyd.	anhydrous	dms.	drums	o-	ortho
a.p.a.	available phosphoric acid	dom.	domestic	ord.	ordinary
approx.	approximately	E.	east	oz.	ounce
artif.	artificial	e.p.	end point	p-	para
ASTM	American Society for Testing Materials	equald.	equalized	Pac.	Pacific
Atl.	Atlantic	exp.	expressed	pf.	proof
Be.	Baume	F	fahrenheit	phos.	phosphate
bbls.	barrels	ferment.	fermentation	photo.	photographic
bgs.	bags	f.f.a.	free fatty acid	pkgs.	packages
bls.	bales	f.f.c.	free from chlorine	powd.	powdered
bots.	bottles	fib.	fiber	precip.	precipitated
b.p.	boiling point	f.o.b.	free on board	prod.	producer
b.p.l.	bone phosphate of lime	f.p.a.	free of prussic acid	pt.	point
b.r.	boiling range	frt.	freight	pulv.	pulverized
bxs.	boxes	gal.	gallon	purif.	purified
C.	centigrade	gran.	granular	redist.	redistilled
cbys.	carboys	grd.	ground	refd.	refined
CD	completely denatured	i.&a.	iron and aluminum	refy.	refinery
c.i.f.	cost, insurance, freight	i.b.p.	initial boiling point	reg.	regular
cks.	casks	imp.	imported	resub.	resublimed
c.l.	carlots	incl.	included	ret.	returnable
cns.	cans	indust.	industrial	SD	specially denatured
coml.	commercial	kgs.	kegs	s.d.	single distilled
conc.	concentrated	l-	laevo	S. E.	southeast
CP	chemically pure	lacq.	lacquer	sec.	secondary
cps.	centipoises	lb.	pound	secs.	seconds
cryst.	crystal	l.c.l.	less than carlots	s.g.	specific gravity
cs.	cases	l.t.l.	less truckload	ship't	shipment
ctns.	cartons	liq.	liquid	soln.	solution
cyls.	cylinders	mfrs.	manufacturers	s.u.	standard unit
d-	dextro	m-	meta	syn.	synthetic
dbl.	double	m.a.p.	mixed aniline point	tanks.	railroad tankcars
denat.	denatured	min.	minimum	tech.	technical
dest-dist.	destructive-distilled	m.p.	melting point	tert-	tertiary
dl-	dextro-laevo	N-	nitrogen	t.l.	truck loads
dist.	distilled	n-	normal	t.w.	tank wagons
		nat.	natural	USP	U. S Pharmacopoeia
		neut.	neutral	vis.	viscosity
		NF	National Formulary	VM&P	varnish makers & painters
				W.	west
				whse.	warehouse
				w. w.	water-white

A unit-ton is 2,000 pounds of 1 percent of the basic constituent or other standard of the material. The percentage figure of the basic constituent multiplied by the price figure shown gives the price of 2,000 pounds of the material.

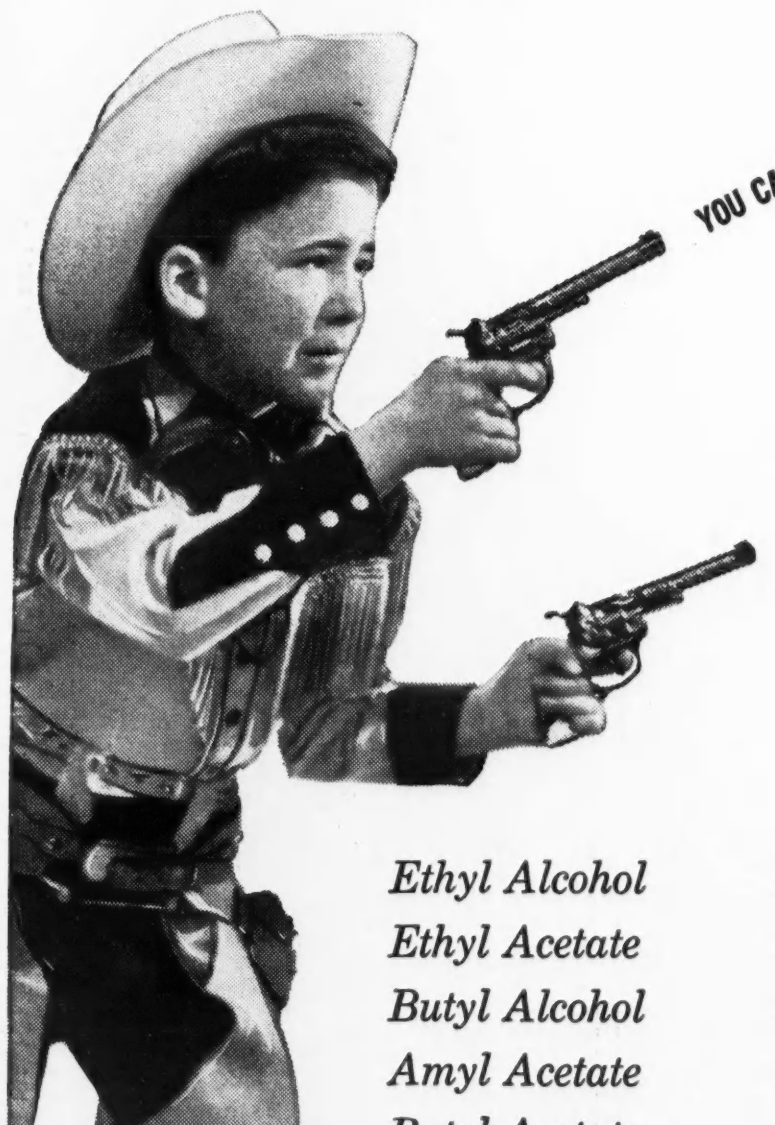
Acid, lactic, edible, 50%, bbls., 20 or more..lb. .1821- .215
smaller lots.....lb. .1921- .225
80%, bbls., 5 or more...lb. .3121- .37
smaller lots.....lb. .3171- .375
plastic grade, 50%, bbls., 20 or more, works lb. .23 - —
1 to 19 .....lb. .235 - —
80%, bbls., 5 or more....lb. .385 - —
tech., 22%, bbls., c.l., works 100 lbs. 6.30 - —
l.c.l., works 100 lbs. 6.70 - —
cbys., l.c.l., works 100 lbs. 12.20 - —
44%, bbls., c.l., works 100 lbs. 11.45 - 11.95
l.c.l., works.....100 lbs. 11.85 - 12.35
USP, 85%, cbys. .....lb. .85 - .88
Laurent's, bbls .....lb. .69 - —
Lauric, 90%, dms.....lb. .36½- .38½
Linseed oil, dist., dms.....lb. .1900- —
w.w., dms .....lb. .2200- —
Maleic, cryst., powd. dms.....lb. .37 - .38
Malic, tech., dms .....lb. .50 - —
Mandelic, NF, dms., 1,000-lb. lots. lb. 2.35 - —
smaller lots lb. 2.40 - 2.50
Metanilic, dms., works .....lb. .57 - .75
Methacrylic, glacial, 98%, dms., truckloads, works lb. .54½- —
smaller lots, works..lb. .55 - —
Molybdic, 85%, dms., works ..lb. 1.26 - —
Monochloroacetic, purif. (see Acid, Chloroacetic, mono-).
Muriatic (see Acid, hydrochloric).
Myristic, dms .....lb. .26 - .28

Acid, 1-naphthol-4 sulfonic (see Acid, Neville and Winthers).
1-Naphthol-5-sulfonic (see Acid, L).
1-Naphthol-5-sulfonic, 8-amino (see Acid, S).
1-Naphthol-3,6-disulfonic, 8-amino (see Acid, H).
2-Naphthol-6,8-disulfonic (see Acid, Gamma).
5-Naphthol-7-sulfonic, 2-amino (see Acid, J).
Naphtholsulfonic, mixed (see Acid, Cleve's).
1-Naphthylamine-5-sulfonic (see Acid, Laurent's).
2-Naphthylamine-4,8-disulfonic (see Acid, Casella).
2-Naphthylamine-6-sulfonic (see Acid, Broenner's).
2-Naphthylamine-7-sulfonic (see Acid, F).
2-Naphthylamine-1-sulfonic (see Acid, Tobias).
Nevile and Winther's, dms., frt. alld lb. 1.20 - —
Nicotinic, USP, dms., dlvd kilo. 8.00 - 8.30
Amide, USP (see Nicotinamide).
Nitric, 36° Be, cbys., c.l., works, E 100 lbs. 5.75 - —
l.c.l., works, E.....100 lbs. 6.05 - 6.85
38° Be, cbys., c.l., works, E. 100 lbs. 6.25 - —
l.c.l., works, E.....100 lbs. 6.55 - 7.35
40° Be, cbys., c.l., works, E. 100 lbs. 6.75 - —
l.c.l., works, E.....100 lbs. 7.05 - 7.85
42° Be, cbys., c.l., works, E. 100 lbs. 7.25 - —
l.c.l., works, E.....100 lbs. 7.55 - 8.35
58.5 to 68% HNO_3, tanks, works, 100% basis..100 lbs. 3.90 - —
94½ to 95½% HNO_3, tanks, works, 100% basis..100 lbs. 4.90 - —

Acid, nitric, CP, NF, consumer, cbys., extra, c.l., works..lb. .18½- —
l.c.l., same basis.....lb. .20 - .20½
5 pt. bots. extra, cs., c.l., same basis..lb. .22½- —
l.c.l., same basis.....lb. .24 - .26
p-Nitrobenzoic, dms., c.l., works. lb. .72 - —
l.c.l., works.....lb. .73 - —
Oleic, s.d., dms.....lb. .18½- .20½
tanks .....lb. .16½- —
dbl. dist. (white), dms. ....lb. .20½- .22½
tanks .....lb. .18½- —
Oleum (see Acid, sulfuric, fuming).
Orthochlorobenzoic (see Acid, o-Chlorobenzoic).
Orthocresotinic (see Acid, 2,3-Creosotic).
Oxalic, bbls., c.l., works.....lb. .16½- —
10,000-lb. lots, works.....lb. .16¾- —
smaller lots, works.....lb. .17¾- —
b-Oxynaphthoic, fib. dms., 250 lbs. or more, frt. alld..lb. 1.14 - 1.17
Palm, dist., dms.....lb. .14¾- .16¾
tanks .....lb. .12¾- —
Para-aminobenzoic (see Acid, p-Aminobenzoic).
Para-aminosalicylic (see Acid, p-Aminosalicylic).
Parachlorobenzoic (see Acid, p-Chlorobenzoic)
Paramethylphenylcinchonic (see Neocinchophen)
Paranitrobenzoic (see Acid, p-Nitrobenzoic)
Paratoluidinmetasulfonic (see Acid, p-Toluidine m-sulfonic)
Phenylacetic, pure, cryst. cns. lb. 1.45 - 1.75
Phenylcinchoninic (see Cinchophen).
Phenylglycolic (see mandelic).
Phosphoric, food grade, 75%, cbys., c.l., works, E., frt. equald..100 lbs. 6.75 - —
l.c.l., same basis.100 lbs. 7.00 - 7.50
tanks, works.....100 lbs. 5.35 - —
80%, cbys., c.l., frt. alld. 100 lbs. 7.60 - —
l.c.l., works.....100 lbs. 7.85 - 9.10
tanks, works .....100 lbs. 5.75 - —

Acid, phosphoric, NF, 85%, cbys., c.l., works..lb. .0825- —
l.c.l., works.....lb. .0850- .0975
tanks, works.....lb. .0640- —
Picric, NF, bbls.....lb. .60 - —
tech., bbls .....lb. .34 - .35
Propionic, syn., pure, dms., c.l., frt. alld..lb. .22¾- —
l.c.l., frt. alld.....lb. .23¾- —
tanks, frt. alld.....lb. .20¾- —
Pyrogallic, NF, (see Pyrogallol).
tech., bbls.....lb 2.76 2.99
Ricinoleic (see Acid, castor oil, split).
S., bbls., works.....lb. 3.25 - —
Salicylic, crude, fib. dms., c.l., frt. alld..lb. .35 - —
l.c.l., frt. alld. on 100 lbs. or more..lb. .36 - —
sublimed, tech., fib. dms., c.l., dlvd..lb. .37 - —
l.c.l., dlvd. .....lb. .41 - —
USP, cryst., fib. dms.....lb. .48 - —
powd., fib. dms.....lb. .55 - —
Sebacic, purif., dms., c.l., works.lb. .64 - —
l.c.l., works .....lb. .66 - .70
Soybean oil, dbl. dist., dms...lb. .18¾- .20¾
tanks .....lb. .16¼- —
s.d., dms.....lb. .17¼- .19¼
tanks .....lb. .15¼- —
Stearic, dbl. pressed, bgs.....lb. .15¼- .17¼
single pressed, bgs.....lb. .14¾- .16¾
triple pressed, bgs.....lb. .17¼- .19½
Succinic, purif., cryst., bbls., works lb. .62 .75
Sulfanilic, tech., dms., c.l., frt. alld..lb. .19 - —
l.c.l., frt. alld.....lb. .21 - —
Sulfuric, 60° Be, cbys., c.l., works..100 lbs. 2.00 - —
l.c.l., works.....100 lbs. 2.45 - —
tanks, works.....ton. 18.60 - —
66° Be, cbys., c.l., works 100 lbs. 2.25 - —
l.c.l., works .....100 lbs. 2.55 - 3.35
tanks, works .....ton. 22.35 - —
98%, tanks, works .....ton. 23.50 - —
99-100%, tanks, works....ton. 23.95 - —
CP, NF, consumers, frt. equald. lb. .12¾- —
l.c.l., same basis ..lb. .14¼- .14¾
5-pt. bots., extra cs., cl., works, frt. alld..lb. .16¼- —
l.c.l., same basis..lb. .18¼- .18¾
fuming (oleum), 20%, tanks, works..ton. 25.00 - —
40%, tanks, works.....ton. 29.00 - —
65%, tanks, works.....ton. 39.50 - —
Tall, dms., c.l., works.....lb. .09 - .09½
tanks, works .....lb. .07½- .08
Tallow, dist., dms.....lb. .15¼- .17¼
tanks .....lb. .13¼- —
hydrogenated, dms.....lb. .14¼- .16¼
Tannic, NF, fluffy, bbls., 1,000-lb. lots..lb. 2.05 - —
smaller lots .....lb. 2.06 - 2.10
powd., bbls., 1,000-lb. lots..lb. 1.95 - —
smaller lots.....lb. 1.96 - 2.01
tech., dms.....lb. 1.05 - —
Tartaric, USP, dom., 230 or 250-lb. dms., c.l.....lb. .47 - —
10,000-lb. lots, 1 shipt lb. .47½- —
smaller lots .....lb. .48 - —
100-lb. dms. .....lb. .49 - —
imported .....lb. .39½- .40
Thioglycolic, refd., cbys., 100% basis lb. 1.35 - 1.55
Thiosalicylic, purif., dms., 1,000-lb. lots, works..lb. 4.00 - —
Tobias, bbls., frt. alld.....lb. .81 - —
p-Toluenesulfonic, dms., c.l., t.l., works..lb. .17 - —
l.c.l., works .....lb. .18 - —
p-Toluene sulfonic, monohydrate, dms., c.l., or t.l..lb. .90 - —
125 lbs. to t.l.....lb. 1.00 - —
p-Toluidine-m-sulfonic, bbls., works lb. .92 - 1.04
Trichloroacetic, bots. .....lb. 2.00 - 2.50
Trichlorophenoxyacetic (see 2,4,5-T).
Tungstic, tech., kgs., works....lb. 4.25 - —
Undecylenic, dms.....lb. 1.40 - —
Aconite root, bls.....lb. .50 - .55
Acrolein, tech., dms., c.l., works.lb. .47 - —
l.c.l., works.....lb. .47½- —
tanks, works .....lb. .46 - —
Acrylonitrile, dms., c.l., t.l., frt. equald..lb. .30 - —
l.c.l., l.t.l., frt. equald.....lb. .31 - —
tanks, frt. equald.....lb. .27 - —
ACTH, cryst., bulk, 1,000 units/gram, bots gram 15.00 - —
Adeps lanae (see Lanolin).
Adrenocorticotropic hormone (see ACTH).
Agar, USP, Kobe No. 1, strip, bls. lb. 2.35 - 2.50
powdered, 30 mesh., fib., dms..lb. 2.65 - 2.75
dl-Alanine, dms., works.....lb. 8.50 - 11.00
Albumin, blood, dark (see Blood, dried, soluble).
light, dms.....lb. .65 - 1.00
Egg, edible, cryst., powd., bbls. lb. 1.89 - 1.91
flake .....lb. 1.85 - 1.87
tech., cryst., bbls.....lb. 1.08 - 1.10
Alcohol, allyl, dms., c.l. dlvd....lb. .32 - —
l.c.l., dlvd.....lb. .33 - —
tanks, dlvd.....lb. .30 - —
Amyl, ex fusel oil (see Fusel oil, refd.)
ferment., refd., 128°-132°C., dms., l.c.l., dlvd..lb. .43 - —
ACS grade, dms., l.c.l., dlvd..lb. .45 - —
ex-pentane, mixed, amyls, dms., c.l., frt. alld..lb. .18 - —
l.c.l., frt. alld.....lb. .19 - —
tanks, frt. alld.....lb. .15½- —
primary, dms., c.l., frt. alld. lb. .19¼- —
l.c.l., frt. alld.....lb. .20¼- —
tanks, frt. alld.....lb. .17¼- —
sec-synthetic, dms., c.l., works, frt. alld..lb. .18½- —
l.c.l., works.....lb. .19½- —
tanks, works.....lb. .16½- —
tert-synthetic, dms., c.l., frt. alld. E...lb. .18 - —
l.c.l., frt. alld E.....lb. .19 - —
tanks, frt. alld E.....lb. .15½- —
1-pentanol, (syn. normal), dms., c.l., works..lb. .41½- —
l.c.l., works.....lb. .42½- —
tanks, works.....lb. .39½- —
2-pentanol, dms., c.l., works..lb. .65 - —
l.c.l., works.....lb. .70 - —
tanks, works.....lb. .60 - —
Benzyl, NF, dms .....lb. .64 - .70
tech., dms., dlvd.....lb. .47½- .49
n-Butyl, ferment., dms., c.l., frt. alld..lb. .16 - —
l.c.l., frt. alld.....lb. .17 - —
tanks, frt. alld.....lb. .13½- —
synthetic, dms., c.l., dlvd...lb. .16 - —
l.c.l., dlvd .....lb. .17 - —
tanks, dlvd .....lb. .13½- —
sec-synthetic, dms., c.l., dlvd. lb. .14 - —
l.c.l., dlvd. .....lb. .15 - —
tanks, dlvd.....lb. .11½- —
tert-synthetic, dms., c.l., frt. alld. lb. .14 - —
l.c.l., frt. alld.....lb. .15 - —
tanks, frt. alld.....lb. .12 - —
Capryl, 95%, dms., c.l., works.lb. .21½- —
l.c.l., works.....lb. .22½- .23¼
tanks, works.....lb .19½- —
Cetyl, extra, fib. cns., 500-lb. lots or more..lb. .65 - .72
NF, fib. cns., 140-lb. lots or more..lb. .48 - —
Cinnamic, bots.....lb. 2.15 - 2.75

sure as sh◎◎tin'



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FOR STEADY SUPPLY

FOR PROMPT DELIVERY

Ethyl Alcohol — *Acetone*
Ethyl Acetate — *Acetaldehyde*
Butyl Alcohol — *Acetic Acid*
Amyl Acetate — *Butadiene*
Butyl Acetate — *Refined Fusel Oil*

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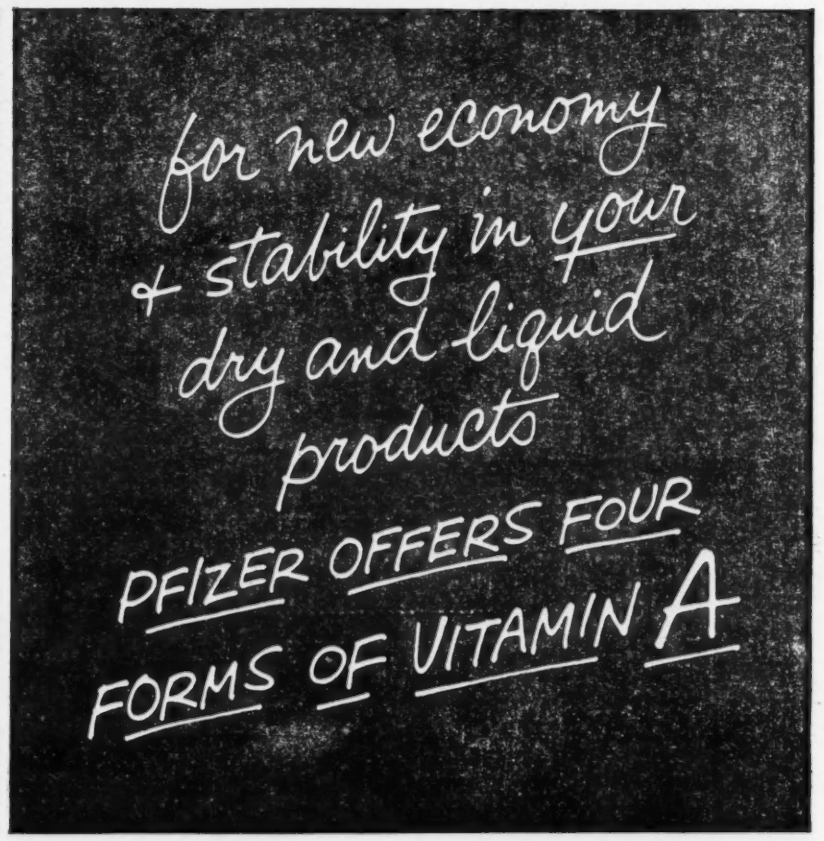

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PFIZER VITAMIN A AND D CRYSTALETS®—You add **Vitamin D at minimum cost** when you use these Pfizer A and D Crystalets in your dry products. And you simplify your manufacturing (various ratios can be obtained from two potencies available: 500,000 Vitamin A units per gram in combination with either 100,000 or 50,000 Vitamin D units per gram).

PFIZER VITAMIN A PALMITATE—Ideal for soft gelatin capsules and formulations where high potency and freedom from taste and odor is of paramount importance. It has **uniform color** and viscosity, **high stability** and compatability with other vitamins. Minimum potency: 1,700,000 U.S.P. units of Vitamin A per gram. Also available in a standardized potency of 1,000,000 U.S.P. units per gram in vegetable oil.

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Manufacturer of Vitamins

Pfizer

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Chemical Sales Division

630 Flushing Ave., Brooklyn 6, N. Y.
Branch Offices: Chicago, Ill.; San Francisco, Calif.; Vernon, Calif.; Atlanta, Ga.; Dallas, Tex.

Alcohol, Decyl—m-Aminophenol

Alcohol, decyl mixed isomers, dms., c.l., dlvd lb. .23½- —
l.c.l., dlvd lb. .24½- —
tanks, dlvd lb. .21 - —
perfume grade, bots lb. 1.75 - 2.00
normal (see 1-Decanol).
Denat. CD-12, CD-13, CD-14, CD-17, dms., c.l., dlvd. E of Rockies gal. .64½- .66
l.c.l., same basis gal. .69½- .77
tanks, dlvd., same basis. gal. .48½- .50
Tankcar sales require written authorization by Alcohol and Tobacco Tax Div.

Proprietary solvent, dms., c.l., dlvd. E. of Rockies gal. .66 - —
l.c.l., same basis gal. .71 - .77
tanks, same basis gal. .50 - —
Tankcar sales require written authorization by Alcohol and Tobacco Tax Div.

SD1, dms., c.l., dlvd. E. of Rockies gal. .66 - —
l.c.l., same basis gal. .71 - .77
tanks, same basis gal. .50 - —

SD2B, dms., c.l., dlvd. E. of Rockies gal. .64 - —
l.c.l., same basis gal. .69 - .75
tanks, same basis gal. .48 - —

SD3A, dms., c.l., dlvd. E. of Rockies gal. .635 - —
l.c.l., same basis gal. .685 - .745
tanks same basis gal. .475 - —

SD23A, dms., c.l., dlvd. E. of Rockies gal. .655 - —
l.c.l., same basis gal. .705 - .765
tanks, same basis gal. .495 - —

Alcohol, denat., SD23H, dms., c.l., dlvd. E. of Rockies gal. .66 - —
l.c.l., same basis gal. .71 - .77
tanks, same basis gal. .50 - —

SD29, dms., c.l., dlvd. E. of Rockies gal. .645 - —
l.c.l., same basis gal. .695 - .755
tanks, same basis gal. .485 - —

SD30, dms., c.l., dlvd. E. of Rockies gal. .63 - —
l.c.l., same basis gal. .68 - .74
tanks, same basis gal. .47 - —

SD35A, dms., c.l., dlvd. E. of Rockies gal. .665 - —
l.c.l., same basis gal. .715 - .775
tanks, same basis gal. .505 - —

SD40, dms., c.l., dlvd. E. of Rockies gal. .645 - —
l.c.l., same basis gal. .695 - .755
tanks, same basis gal. .483 - —

West coast dlvd. prices are the same as eastern prices, except in Idaho, Montana, Oregon and Washington, where a 5c. differential on tankcars is maintained.

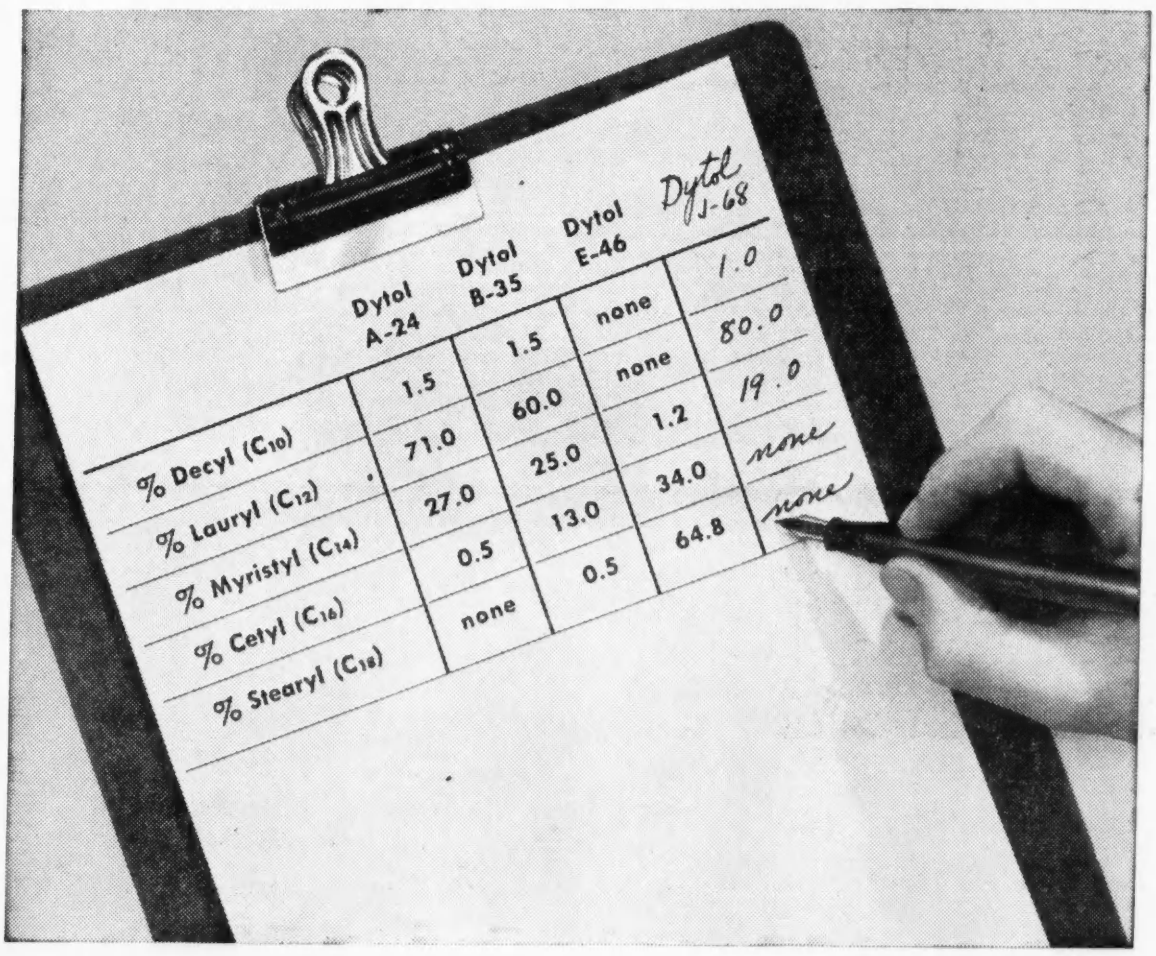
Diacetone, acetone-free, dms., c.l., dlvd lb. .15 - —
l.c.l., dlvd lb. .16 - —
tanks, dlvd lb. .125 - —
tech., dms., c.l., dlvd lb. .145 - —
l.c.l., dlvd lb. 1.55 - —
tanks, dlvd lb. .12 - —

Ethyl, 190 pf., USP, tax paid, dms., c.l., dlvd. E. of Rockies gal.20.58 - —
l.c.l., same basis gal.20.63 -20.69
tanks, same basis gal.20.42 - —

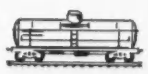
Alcohol, ethyl, 190 pf., USP, tax free, dms., c.l., dlvd. E. of Rockies gal. .63 - —
l.c.l., same basis gal. .68 - .74
tanks, same basis gal. .47 - —
absolute, 200 pf. tax paid, dms., dlvd. E. of Rockies gal.21.68 - —
l.c.l., same basis gal.21.73 -21.79
tanks, same basis gal.21.52 - —

2-Ethylbutyl, dms., c.l., works lb. .30 - —
l.c.l., works lb. .30¾- —
tanks, works lb. .28 - —
2-Ethylhexyl, dms., c.l., dlvd. E. lb. .24¼- —
l.c.l., same basis lb. .25¼- —
tanks, same basis lb. .21¾- —
Furfuryl, cns., works lb. .29 - —
dms., c.l., Memphis, Tenn. lb. .20 - —
Newark, N. J. lb. .21½- —
l.c.l., Memphis, Tenn. lb. .21 - —
Newark, N. J lb. .22½- —
tanks Memphis, Tenn lb. .184 - —
Hydroabietyl, tech., solid, Zone 1, dms., c.l., dlvd lb. .27 - —
l.c.l., dlvd lb. .27½- —
tanks, dlvd lb. .25 - —
Isoamyl, dms., c.l., works, frt. alld. E lb. .28 - —
l.c.l., same basis lb. .29 - —
tanks, same basis lb. .25 - —
Isobutyl, dms., c.l., dlvd lb. .15 - —
l.c.l., dlvd lb. .16 - —
tanks, dlvd lb. .12½- —
Iso-octyl, dms., c.l., dlvd. E lb. .23½- —
l.c.l., dlvd E lb. .24½- —
tanks, dlvd E lb. .21 - —
Isopropyl, refd., 91%, dms., c.l., dlvd gal. .53 - —
l.c.l., dlvd gal. .60 - —
tanks, dlvd gal. .37 - —
95%, c.l., dlvd gal. .55 - —
l.c.l., dlvd gal. .62 - —
tanks, dlvd gal. .39 - —
99%, dms., c.l., dlvd gal. .57 - —
l.c.l., dlvd. gal. .64 - —
tanks, dlvd gal. .41 - —

Alcohol, lauryl, bots lb. 2.00 - 2.50
Methyl (see Methanol).
Methylamyl (see Methyl isobutyl carbinol).
Octyl, perfumer's grade, bots. lb. 1.60 - 3.25
tech. (see Octanol, normal).
2-Phenylethyl, extra, dms lb. 1.14 - 1.45
standard, dms lb. 1.10 - 1.60
n-Propyl, dms., c.l., dlvd lb. .13 - —
l.c.l., dlvd lb. .14 - —
tanks, dlvd lb. .10½- —
Tetrahydrofurfuryl, dms., c.l. or t.l., f.o.b. Memphis, Tenn lb. .37 - —
l.c.l. or t.t.l., f.o.b. Memphis, Tenn lb. .38 - —
f.o.b. Newark, N. J lb. .40 - —
tanks, dlvd. E. of Denver lb. .365 - —
dlvd. W. of Denver lb. .375 - —
Tridecyl, mixed isomers, dms., dlvd lb. .26½- —
l.c.l., dlvd lb. .27½- —
tanks, dlvd lb. .24 - —
Wood (see Methanol).
Aldol, 95%, dms., works lb. .23 - —
denaturing grade, dms gal. 2.15 - —
Aldrin, tech., fib. dms., c.l., t.l., dlvd lb. .80 - —
l.c.l., dlvd lb. .85 - —
Aletris root, bgs lb 1.75 1.85
Algin (see Sodium alginate).
Alizarine (see 1,2-dihydroxy anthraquinone).
Allethrin, 90%, dms. frt alld lb.28 80 -28 90
soln., 20% dms. 200-2,000 lb. lots, frt. alld lb. 6.50 - 6.55
2½%, dms., frt. alld lb 95 1.00
Allspice (see Pimento)
Allyl bromide, cbys., works lb. 1.45 - 1.50
Chloride, dms., c.l., dlvd lb. .17 - —
l.c.l., dlvd lb. .18 - —
tanks, dlvd lb. .15 - —
Aloe, Cape, cs lb. .45 - .48
powd., cs lb. .50 - —
Curacao, kgs lb. 50 - .55
Aloin, USP, bbls., dms., kgs lb. 3.75 - 3.82
Alphanaphthol (see a-Naphthol).
Alphanaphthylamine (see a-Naphthylamine).
Alphanitronaphthalene(see a-Nitronaphthalene).
Alphapicoline (see a-Picoline).
Alphaterpineol (see a-Terpineol).
Alphatocopherol (see a-Tocopherol).
Alum, ammonium, gran., bgs., works 100 lbs 4.30 - —
lump, dms., works 100 lbs. 5.05 - —
powd., dms., works 100 lbs. 5.20 - —
Alum, ammonium, USP, burnt, dms lb. .20 - .21
hydrous, dms. lb. .07¾- .08
Potassium, gran., bgs., works. 100 lbs. 4.55 - —
lump, dms., works 100 lbs. 5.30 - —
powd., dms., works 100 lbs. 5.45 - —
USP, burnt dms lb. .20 - .21
hydrous, dms lb. .07¾- .08
Potash-chrome dms lb. .17 - —
Alumina, calcined, bgs., c.l., works. lb. .0455- —
l.c.l., works lb. .048 - .0755
Aluminum acetate, basic soln., 24%, bbls., l.c.l., works lb. .14 —
Chloride, coml., anhyd., dms., c.l., works, frt. equald. lb. .15½- —
l.c.l., works, frt. equald. lb. .16 - —
cryst., dms., c.l., works lb. .1450- —
l.c.l., works lb. .1500- —
soln., 32°, cbys., c.l., works lb. .0445- —
l.c.l., works lb. 0520- .1295
tanks, works 100 lbs. 3.45 - —
NF, gran., dms., works lb. .29 - .30
Fluoride tech., anhyd., bgs., c.l., works lb. .15¾- —
l.c.l., works lb. .16¾- .16¾
Aluminum fluoride in fib. dms. 0.35c. per lb higher.
Formate basic soln., dms., c.l., l.c.l., works lb. .12½- —
works lb. .12 - —
Hydrate, heavy, bgs., c.l., frt. frt. equald lb. .032 - —
20,000-40,000 lb. lots, same basis lb. .0345- —
2,000-20,000 lb. lots, same basis lb. .0445- —
bulk, same basis lb. .0295- —
Hydroxide, gel, pharmaceutical, 14-15% Al_2O_3, fib. dms., works lb. .22 - —
contract, works lb. .21 - —
9-9½% Al_2O_3, fib. dms., works lb. .19 - —
contract, works lb. .18 - —
dried, USP, XIV, fib. dms., works lb. .82½- —
contract, works lb. 79½- —
tech., powder (see Aluminum hydrate).
Metal, 99%+, ingots, 10,000-lb. lots, frt. alld lb. .2710- —
pigs, 10,000-lb. lots, frt. alld. lb. .2500- —
Oxide, amorphous (see Alumina, calcined).
Paste, lining, extra-fine, dms lb. .68 - —
standard grade, dms lb. .48 - —
Powder, lining, extra, fine, dms. lb. 1.09 - —
standard grade, dms lb. .78½- —
Aluminum powder and paste prices are f.o.b. shipping point. Add 1c. per lb. for 100-lb. dm., 1½c. per lb. for 50-lb. dm., 3c. per lb. for 10-lb. can and 5c. to 12c. per lb. for smaller containers. Deduct 1c. per lb. for single shipment of 400 to 1,499 lbs., 2c. for 1,500 to 4,999 lbs., 3c. for 5,000 to 29,999 lbs. and 4c. for 30,000 lbs. or more. Where destination is within the continental U. S. a deduction equivalent to the lowest available common carrier transportation rate will be made from seller's invoice on orders of 200 lbs. or over.
Resinate, precip., 2.1% Al, dms. 100 lbs. 7.26 - —
Stearate, dibasic, ctns., c.l. lb. .37 - —
l.c.l. lb. .38 - .42
monobasic, ctns., c.l. lb. .37 - —
l.c.l. lb. .38 - .42
tribasic, ctns., c.l. lb. .37 - —
l.c.l. lb. .38 - .42
Sulfate, coml., bulk, c.l., works. 100 lbs. 1.85 - —
grd., bgs., c.l., works ton.37.00 - —
lump, bgs., c.l., works ton.40.00 - —
iron-free, bgs., c.l., works, frt. equald 100 lbs. 3.55 - —
l.c.l., works, frt. equald. 100 lbs. 3.95 - 4.56
Prices $1 per ton higher in the south.
USP, gran., dms., works lb. .16 - .18
powd., dms., works lb. .36 - .37
Trihydrate, heavy (see Aluminum hydrate, heavy).
Ambergris, gray, bots oz. 8.00 -10.00
Aminoazotoluene base, bbls., 100% basis lb. 1.03 - 1.18
Aminoethyl ethanolamine, dms., c.l., dlvd lb. .475 - —
l.c.l., dlvd lb. .485 - —
tanks, dlvd lb. .45 - —
2-Amino-2-methyl-1-propanol, dms., c.l., frt. alld lb. .44 - —
l.c.l., frt. alld lb. .45 - —
tanks, frt. alld lb. .42 - —
m-Aminophenol, dist., dms., ton lots. lb. 2.05 - —
smaller lots lb. 2.50 - —



There's something new in DYTOL Alcohols



With its high lauryl content, DYTOL J-68 promises to be especially valuable as an intermediate for synthetic detergents. This new fatty alcohol means that the DYTOL family now offers the answer to a wide range of product problems.

You'll want to investigate these fatty alcohols if you make cosmetics, polymerization regulators, lubricating oil additives, textile finishing and softening agents, quaternary ammonium compounds, emulsifiers and detergents.

DYTOL alcohols are available in quantity, are known for their high uniform quality. They undergo the reactions typical of alcohols: ethoxylation, sulfation, esterification, halogenation, dehydration and oxidation. Write to Department SP today for more data.

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WRITE FOR TECHNICAL BULLETIN I-12

This 8-page bulletin gives complete physical and chemical properties; principal reactions of the carboxyl and alpha methylene groups; solubility curve, suggested uses and literature references. Working samples and quotation on request.

NATIONAL ANILINE DIVISION
ALLIED CHEMICAL & DYE CORPORATION
40 RECTOR STREET, NEW YORK 6, N. Y.

Boston Providence Charlotte Chicago San Francisco Atlanta Portland, Ore. Greensboro Philadelphia Richmond Akron Los Angeles Columbus, Ga. New Orleans Chattanooga Toronto

p-Aminophenol, dms., frt. alld .. lb. 1.15 - —
Aminophylline, USP, 100-lb dms lb 3.55 - —
Ammonia anhyd. fertilizer, tanks, works, frt. equald ton.72.00 - —
refrigeration, tanks, works, frt. equald ton.82.50 - —
aqueous, tanks, works, anhyd. basis ton.83.00 - —
Ammoniacal nquor (see Ammonia, aqueous).
Ammoniac, sal, gray, bgs., c.l., works, frt equald 100 lbs 8.25 --
l.c.l., same basis 100 lbs 8.65 -11.15
white gran. (see Ammonium chloride tech.).
Ammonium acetate, purif., dms lb. .38 - —
Benzoate, USP dms., kgs. 4,000-lb. lots frt. alld lb. .80 - —
smaller lots frt. alld lb .81 - 1.08
Biborate gran., dms. c.l., works ton 319.50 - —
ton lots, ex whse ton 395.00 - —
smaller lots, ex whse ton 400.00 - —
Bicarbonate dom., dms. c.l., works 100 lbs. 7.00 - —
l.c.l., works 100 lbs. 9.00 - —
Bichromate, dms., works lb. .42 - .43
Bifluoride, dms., dlvd lb. .2145- .2245
Bromide, NF, gran., bbls lb. .43 - —
Powdered ammonium bromide 10c per lb. higher.
Carbonate, USP, lump, dms. lb. .16 - —
Chloride, tech., fine gran., bgs., c.l., works 100 lbs. 5.75 - —
l.c.l., works 100 lbs. 7.75 - 8.20
USP, gran., bbls., dms lb. .17¼ - —
Citrate, dibasic, bbls lb. .77 - —

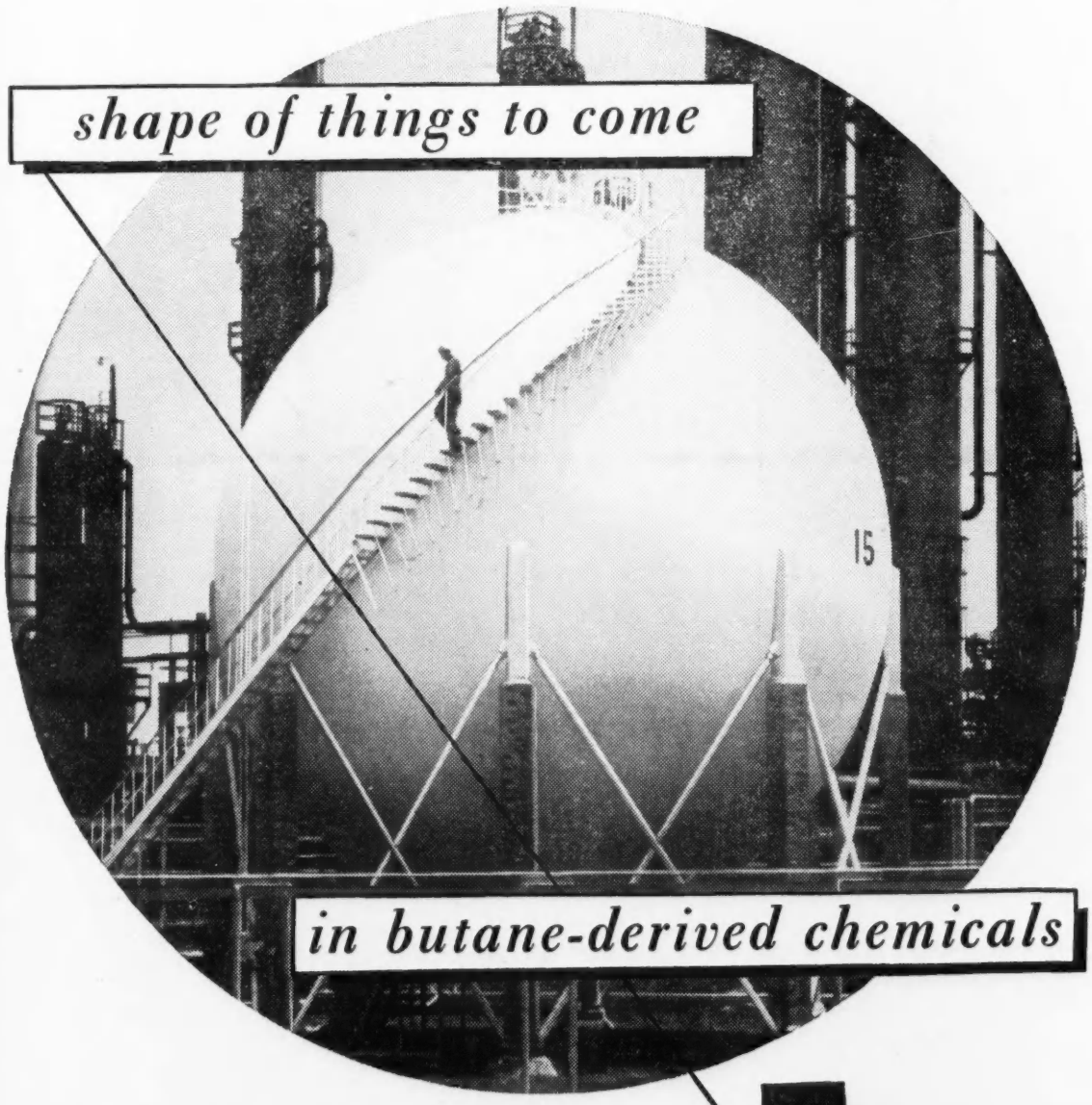
Ammonium dichromate (see Ammonium bichromate).
Fluoride (see Ammonium bifluoride).
Hydroxide (see Ammonia acqueous).
Hypophosphite, NF, dms lb. 3.07 - —
Iodide, NF, dms., bots lb. 4.26 - 4.38
Linoleate, 80% dms., works lb. .50 - .55
Nitrate dom., fert. grade, 33.5% N., bgs., western works, frt. equald, base price ton.64.00 - —
August discount ton. 4.00 - 5.00
imp., Canadian, 33.5% N, eastern bgs., c.l., ship't point, frt. equald to $8 per ton, base price ton.64.00 - —
August discount ton. 5.00 - —
western, bgs., c.l., f.o.b. cars, Los Angeles ton.79.69 - —
with dolomite, 20.5% N, bgs., Hopewell, Va ton.51.00 - —
Oxalate, fine gran., dms lb. .26¼ - .31
Pentaborate, gran., bgs., c.l., works ton.187.50 - —
ton lots, ex whse ton.271.50 - —
smaller lots, ex whse ton.276.50 - —
Ammonium pentaborate powder $10 per ton higher.
Persulfate, kgs lb. .38 - 47½
Phosphate, coml., bgs., c.l., works, frt. equald lb. .09¼- —
l.c.l., same basis lb. .10 - —
dibasic, NF, V bbls., dms. lb. .46 - —
tech., bgs., c.l., works, frt. equald lb. .09¼- —
l.c.l., same basis lb. .10 - —

Ammonium salicylate, NF, dms., kgs. lb. 1.62 - 1.64
Silicofluoride, dms., works lb. .11¾- .13¼
Sulfamate, bgs., c.l., t.l., works lb. .18 - —
l.c.l., works lb. .22 - —
Sulfate, coke-oven, bulk, producing ovens, base price ton.32.00 - —
syn., bulk, c.l., f.o.b. works ton.32.00 -42.00
purif., dms., works lb. .09 - .09½
Sulfide, liq., 40-44%, tanks, frt. equald., 100% basis ton.160.00 - —
Sulfocyanide, tech. (see Ammonium thiocyanate).
Thiocyanate, tech., dms., c.l., works lb. .20 - —
l.c.l., works lb. .22 - .26
Thioglycollate, coml., cbys., 100% basis lb. 1.35 - 1.65
highly purif., cbys., 100% basis. lb. 1.70 - 1.96
Thiosulfate, cryst., photo grade, fib. dms., frt. alld lb. .65 - —
d-Amphetamine hydrochloride dibasic, bots lb.28.00 - —
dl, dms lb. 6.00 - —
d-monobasic, bots lb.28.00 - —
d-Phosphate, dibasic, bots lb.28.00 - —
dl, dms lb 6.00 - —
d-Sulfate, dms. lb.28.00 - —
dl, dms lb. 6.00 - —
Amyl acetate, ex fusel oil, tech., dms., c.l., frt. alld. E. of Rockies lb. .18 - —
l.c.l., same basis lb. .19 - —
tanks, same basis lh. 15½- —
ex pentane, reg., dms., c.l., dlvd. lb. .18 - —
l.c.l., dlvd lb. .19 - —
tanks, dlvd lb. .15½- —
tech., dms., c.l., dlvd lb. .16 - —
l.c.l., dlvd lb. .17 - —
tanks, dlvd lb. .13½- —

Amyl acetate, syn., oxo process, dms., c.l., dlvd. lb. .19¼- —
l.c.l., dlvd lb. .20¾- —
tanks, dlvd lb. .17¼- —
Alcohol (see Alcohol, amyl).
n-Butyrate, dms lb. 1.00 - 1.25
Cinnamic, aldehyde, dms lb. 1.70 - 2.20
Nitrite, USP, bots lb. 1.75 - 1.83
Salicylate, cns., dms lb. .82 - 1.10
o-tert-Amyl phenol, dms., c.l., works. lb. .49½- —
l.c.l., works lb. .50½- —
tanks, works lb. .47 - —
p-tert-Amyl phenol, dms., c.l., works. lb. .26¾- —
l.c.l., works lb. .27¾- —
tanks, works lb. .25¾- —
Anethole, NF, cns., dms lb. 1.60 - 1.80
tech., dms lb. 1.10 - 1.15
Angelica root, dom., bls lb. .50 - .70
Aniline oil, dms., c.l., frt. alld lb. .21 - —
l.c.l., frt. alld lb. .22 - —
tanks, frt. alld lb. .20 - —
tankwagons, min. 2,000 gals. lb. .20½- —
Salt, dms., c.l., truckloads, 20,000 lbs., min., frt. alld lb. .31 - —
l.c.l., same basis lb. .33 - —
Anise seed, Mexican, bgs. lb. .28 - —
Spanish, bgs lb. .27 - —
Anisic aldehyde, bots., dms lb. 1.95 - 2.70
o-Anisidine, dms., c.l., frt. alld lb. .80 - —
l.c.l., same basis lb. .82 - —
tanks, same basis lb. .78 - —
p-Anisidine, dms., works lb. .97 - —
Annatto seed, whole, bgs lb. .15 - .17
Anthracene, 90-95% bbls., ton-lots, works lb. .83 - —
smaller lots, works lb. .95 - —
Anthraquinone, 99.5%, bbls, c.l., frt. alld lb. .83 - —
l.c.l., same basis lb. .86 - —
electrical grade, bbls., l.c.l., same basis lb. .91 - —
Antimony butter (see Antimony trichloride).
Metal, bulk, c.l., mines lb. .33 - —
cs., c.l., mines lb. .33½- —
Oxide, bgs., c.l., frt. alld lb. .27 - —
l.c.l., frt. alld lb. .28½- —
Sulfide, approx. 65%, bgs., dlvd lb. .23 - .26
Trichloride, anhyd., solid, pails, c.l., works lb. .41 - —
l.c.l., works lb. .43 - —
Antimony-potassium tartrate, tech., powd., dms lb. .65½- .70½
USP, powd., dms lb. .70½- .71½
Antipyrine, NF, 200-lb. bbls lb. 3.50 - —
Apomorphine hydrochloride, USP, 5 oz. lots, bots oz.35.60 - —
Areca nuts, powd., bbls lb. .15 - .16
Arecoline hydrobromide, NF, bots., tins oz. 4.50 - 6.00
l-Arginine monohydrochloride, dms., 1 kilo lots kilo.74.80 - —
Arnica flowers (true montana), bls. lb. No prices.
Arsenic metal, lump, bbls. ex whse. lb. .54 - —
Trioxide, USP, dms lb. .48 - —
White, powd., bbls., c.l., dlvd lb. .05½- —
l.c.l., dlvd lb. .06½- .07½
Asafetida, cs lb. .36 - .39
powd., bbls., dms lb. .50 - .63
Asbestine (see Talc, fibrous, N. Y.).
Asbestos, Canadian, crude, No. 1, c.l. (20 tons) mines ton.1,400.00- —
No. 2, c.l. (20 tons), mines ton.750.00 - —
Run-of-mine, c.l. (20 tons) mines ton.611.60 - —
3K, c.l. (20 tons), mines ton.480.00 - —
3R, c.l., (20 tons), mines ton.408.10 - —
3T, c.l. (20 tons), mines ton.382.80 - —
3Z, c.l. (20 tons), mines ton.353.10 - —
4K, c.l. (20 tons), mines ton.190.30 - —
4M, c.l. (20 tons), mines ton.190.30 - —
4T, c.l., (20 tons), mines ton.171.60 - —
4Z, c.l. (20 tons), mines ton.171.60 - —
5D, c.l. (20 tons), mines ton.135.00 - —
5K, c.l. (20 tons), mines ton.135.00 - —
5M, c.l. (20 tons), mines ton.122.35 - —
5R, c.l. (20 tons), mines ton.115.50 - —
6D, c.l. (30 tons), mines ton.82.00 - —
7D, c.l. (30 tons), mines ton.72.00 - —
7F, c.l. (30 tons), mines ton.66.25 - —
7H, c.l. (30 tons) mines ton.58.00 - —
7K, c.l. (30 tons), mines ton.48.30 - —
7M, c.l., (30 tons), mines ton.42.00 - —
7R, c.l. (30 tons), mines ton.41.00 - —
7RF, c.l. (30 tons), mines ton.42.00 - —
7T, c.l., (30 tons), mines ton.39.00 - —
7TF, c.l. (30 tons), mines ton.42.00 - —
8S, c.l. (30 tons), mines ton28.35 - —
Asbestos c.l. prices are in U. S. funds, l.c.l. lots $4 per ton higher.
Asphalt, gilsonite, black jet, bgs., c.l., mines ton 37.00 - —
select, 350° F. fusing pt., bgs., c.l., mines ton.38.00 - —
270°-295°F., fusing pt., bgs., c.l., mines ton.37.00 - —
seconds, 300°-390°F. fusing pt., bgs., c.l., mines ton.32.00 - —
Manjak, No. 10, crude, dms., works lb. .06¼- —
Petroleum, cut-back, tanks, tankwagon, refy gal. .09 - —
emulsion, tanks, tankwagon, refy. gal. .09½- —
steam-refd., 50-80 penetration, tanks, tankwagon, refy ton.21.00 - —
85-300 penetration, tanks, tankwagon, refy ton.20.00 - —
Aspirin, (see Acid acetylsalicylic).
Atropine, USP, bots oz. 3.90 - —
Sulfate, USP, bots oz. 2.25 - 2.45

B

Bacitracin, bulk, 1,000,000,000 or more units 50,000 units. .70 - —
less than 1,000,000,000 units. 50,000 units. .75 - —
Balm of Gilead buds, dried, bgs. lb. 1.35 - 1.45
Barberry root bark, bgs lb. .28 - .31
Barbital, USP, 100-lb. dms lb. 4.50 - —
Sodium, USP, dms lb. 4.75 - 4.77
Barium carbonate, precip., bgs., c.l., works ton.100.00 - —
smaller lots, works ton.110.00 - —
Chlorate, kgs., works lb. .32 - .36
l.c.l., l.t.l., frt. equald ton.285.00 - —
Chloride anhyd., bgs., c.l., works. ton.165.00 - —
l.c.l., works ton.175.00 - —
NF, cryst., dms lb. .20 - —
tech., cryst., bgs., c.l., works. 100 lbs. 6.50 - —
l.c.l., works 100 lbs. 7.00 - —
Chromate, bgs., frt. equald lb. .35 - —
Dioxide (see Barium peroxide).
Hydrate, cryst., bgs., c.l., t.l., frt. equald ton.208.00 - —
l.c.l., l.t.l., frt. equald ton.218.00 - —
Monoxide (see Oxide).
Nitrate, bbls., c.l., t.l., dlvd lb. .16 - —
l.c.l., l.t.l., dlvd lb. .17 - —
Oxide, grd., dms., c.l., t.l., frt. equald ton.275.00 - —
Peroxide, dms., frt. equald lb. .20 - —
Stearate, ctns., c.l., frt. alld lb. .39 - —
l.c.l., same basis lb. .40 - .44
Sulfate, tech. (see Barytes and blanc fixe).
X-ray, dms lb. .15 - .15¼
Sulfide, dms., c.l., works ton.85.00 - —
l.c.l., works ton.95.00 - —



Additions and betterments now being made at our Houston plant will increase capacity and add flexibility in end-product output. Soon we will produce substantially more butadiene and also offer the isomers n-butylene 1 and n-butylene 2.

Research done at this time can result in worthwhile commercial products now that an ample supply of raw materials at attractive prices will soon be available.

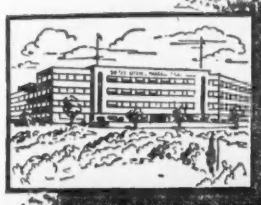
Petro-Tex will do everything possible to foster the development of products based on butane-derived chemicals. Discussion is invited.

BUTADIENE • n-BUTYLENE 1 • n-BUTYLENE 2

Petro-Tex

PETRO-TEX CHEMICAL CORPORATION
HOUSTON 1, TEXAS
JOINTLY OWNED BY
TENNESSEE GAS TRANSMISSION COMPANY AND FOOD MACHINERY AND CHEMICAL CORPORATION

What's BEHIND THE MOST COMPLETE VITAMIN LINE IN THE FIELD?



Sterwin RESEARCH

Sterwin's vitamin research is done at the Sterling-Winthrop Research Institute (above) where scientists work constantly to improve existing products and create new products and formulations.

Sterwin QUALITY

All Sterwin products are subject to rigid control testing procedures. The Sterwin label is your constant guarantee of quality, purity and dependability.

Sterwin SERVICE

Strategically located warehouses assure prompt delivery which enables you to maintain minimum inventory balances.

VITAMINS FROM STERWIN... the most complete line in the field. Check this list for your vitamin needs. And remember . . . Sterwin is ready to deliver any quantity at any time.

VITAMIN A—PALMITATE AND ACETATE
VITAMIN A POWDER
(AVAILABLE ALSO WITH VITAMIN D_2 ADDED)

•

THIAMINE HYDROCHLORIDE
(REGULAR AND AMPULE GRADES)
THIAMINE MONONITRATE

•

RIBOFLAVIN

•

PYRIDOXINE HYDROCHLORIDE

•

***VITAMIN B_{12} CRYSTALLINE**
VITAMIN B_{12} CRYSTALLINE 0.1% TRITURATION
VITAMIN B_{12} ORAL GRADE
VITAMIN B_{12} SOLUBLE GRADE

•

ASCORBIC ACID
(AVAILABLE IN SIX GRANULATIONS, ALSO IN COATED AND AMPULE FORMS)

•

D CALCIUM PANTOTHENATE
DL CALCIUM PANTOTHENATE

•

ALPHA TOCOPHEROL
ALPHA TOCOPHEROL ACETATE

•

NIACIN
NIACINAMIDE

•

VITAMIN D_2 CRYSTALLINE
(CALCIFEROL)
VITAMIN D_3 CRYSTALLINE
(BOTH AVAILABLE IN OIL SOLUTIONS)

*We'll be happy to send you a copy of Sterwin Technical Topics #201. It digests available information on various forms of Vitamin B_{12}. Write or phone your request.

DON'T DELAY . . . TODAY write, wire, phone for complete details and prices on Sterwin Vitamins . . . the most complete line in the field.

STERWIN BRANCHES LOCATED AT:
Atlanta, Buffalo, Dallas, Evanston, Ill., Kansas City, Mo., Los Angeles, Portland, Ore., Rensselaer, N.Y., San Francisco, St. Louis

Sterwin Chemicals INC.

SUBSIDIARY OF STERLING DRUG INC.
1450 BROADWAY, NEW YORK 18, N. Y.

Barytes, Southern, off-color, bgs., mines ton 25.00 - —
95-75%, bgs., mines ton 25.00 - —
water-grd., paper bgs., c.l., St. Louis ton 45.00 - —
ex-whse, N. Y. ton 65.85 - —
Bauxite, bulk, mines ton 6.75 - 10.00
Bay leaves (see Laurel leaves).
Belladonna leaf, bls lb. .35 - .37
root, bls lb. .45 - .50
Bentonite, dom., 200 mesh, bgs. c.l. mines ton 14.00 - —
imp Italian, white, high gel., bgs 5-ton lots, ex whse ton 84.00 - —
1 ton lots, ex whse ton 87.00 - —
low gel., bgs., 5-ton lots, ex whse ton 82.35 - —
1 ton lots ex whse ton 85.35 - —
Benzal chloride, cbys., works lb. .44 - —
Benzaldehyde, NF dms lb. .74 - 1.05
tech., cbys., dms., t.l. lb. .43 - —
smaller lots lb. .44 - —
Benzene (See Benzol).
Hexachloride, 25% and 99% gamma isomer (see Lindane)
tech., high gamma, dms., c.l., dlvd., gamma unit-lb. .0075- .008
l.c.l., works, gamma unit-lb. .009 - .0095
low gamma, dms., c.l., dlvd. gamma unit-lb. .0075- —
l.c.l., works, gamma unit-lb. .009 - —
Benzidine hydrochloride, bbls., c.l., frt. alld., 100% basis lb. 1.03 - —
l.c.l., same basis lb. 1.05 - —
Sulfate, tech., frt. alld., 100% basis lb. 1.05 - —
Benzocaine, dms. lb. 3.48 - 3.50
Benzol, coaltar, pure or nitration, tanks, works:—
Bethlehem, Pa gal. .36 - —
Birmingham district gal. .36 - —
Chicago district gal. .36 - —
Cleveland district gal. .36 - —
Geneva, Utah gal. .36 - —
Johnstown, Pa. gal. .36 - —
Lackawanna, N. Y. gal. .36 - —
Lone Star, Texas gal. .36 - —
Lorain, Ohio gal. .36 - —
Middletown, Ohio gal. .36 - —
Minnequa, Colo gal. .36 - —
Philadelphia district gal. .36 - —
Pittsburgh district gal. .36 - —
Sparrows Point, Md. gal. .36 - —
Syracuse, N. Y. gal. .36 - —
Terre Haute, Ind. gal. .36 - —
Youngstown, Ohio gal. .36 - —
Benzophenone, dms. lb. 1.40 - 1.70
Benzotriazole, tech., dms., 1,000-lb. lots, works lb. 2.25 - —
Benzotrichloride, cbys., 1,000-lb. lots or more, frt. equald lb. .18 - —
smaller lots, frt. equald lb. .20 - —
Benzoyl chloride, cbys., dms., c.l., works, frt. equald lb. .22 - —
l.c.l., same basis lb. .23 - —
tank trucks, dlvd. Metropolitan area lb. .21 - —
Peroxide, purif., fib., dms., 50 to 1,000-lb. lots, works lb. .98 - 1.08
Benzyl acetate, f.f.c., cns., dms lb. .60 - 1.00
Alcohol (see Alcohol, benzyl)
Benzoate, USP, f.f.c., cns., dms lb. .72 - 1.10
Chloride, tech., 13-gal. cbys., dms., c.l., works, frt. equald lb. .23 - —
l.c.l., same basis lb. .24 - —
tank, trucks, dlvd. Metropolitan area lb. .21 - —

A 2½c. differential is quoted on benzyl chloride in 5-gal. cbys. In steel dms. prices were ½c. lower.

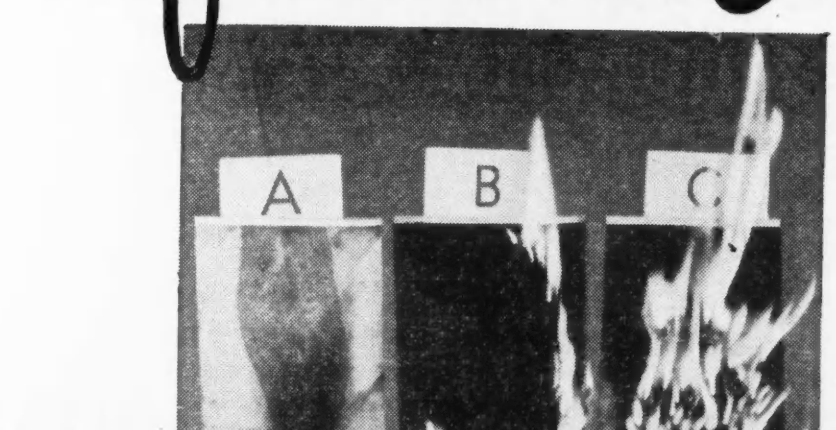
Cinnamate, cns. lb. 3.60 - 3.90
Formate, cns. lb. 1.80 - 2.10
Isoeugenol, cns. lb. 9.85 - —
Propionate, bots. lb. 1.35 - 1.65
Salicylate, bots. lb. 1.50 - 1.85
Benzylidine acetone, bots. lb. 1.75 - 1.80
Chloride (see Benzal chloride).
Berberine bisulfate, cns lb. 35.00 - 36.25
Hydrochloride, bots. lb. 35.00 - 36.25
Betagammapicoline (see b,g-Picoline).
Betamethylnaphthalene (see b-Methylnaphthalene)
Betanaphthol (see b-Naphthol)
Betanaphthylamine (see b-Naphthylamine).
Betaphenylethylamine (see b-Phenylethylamine).
BHC (see Benzene hexachloride, technical)
Biotin cryst., bots gram 10.00 - —
Biphenyl (see Diphenyl).
Bismuth chloride, oxy. lb. 5.11 - —
Hydroxide, dms. lb. 4.65 - —
Metal, bxs., ton lots lb. 2.25 - —
Nitrate, cryst., dms. lb. 2.10 - 2.17
Oxide, anhyd., dms lb. 4.47 - 5.05
Oxychloride, dms. lb. 4.37 - 4.42
Phenolsulfonate, fib. dms lb. 5.22 - —
Subcarbonate, USP, dms lb. 3.20 - —
Bismuth subgallate, NF, fib. dms. lb. 3.15 - —
Subiodide, fib. dms lb. 5.37 - —
Subnitrate, NF, dms lb. 2.65 - —
Subsalicylate, USP, dms lb. 3.50 - —
Bismuth-ammonium citrate, USP, powd., jars lb. 4.22 - —
Bisphenol-A, c.l., t.l., frt. alld lb. .29¾- —
l.c.l., same basis lb. .30¾- —
Black, acetylene, imp., bgs., c.l., duty and freight extra lb. .17 - —
cs., l.c.l., ex whse lb. .22½- .26
Ash (see Barium sulfide)
Bone, dms., l.c.l., frt. alld lb. .17 - .23¼
Pacific coast bone black prices 2c. per lb. higher.
Carbon, channel, pigment, high color, beads, ctns., c.l., works. lb. .72 - —
l.c.l., dlvd. or whse lb. .78 - —
medium color, uncompressed, bgs., c.l., works. lb. .12 - —
l.c.l., dlvd. or whse. lb. .19 - —
rubber, beads, bulk, c.l., works lb. .07 - —
bgs., c.l., works lb. .074 - —
l.c.l., works lb. .1225- —
furnace, fast extruding, bgs., c.l., works lb. .06 - —
ctns., l.c.l., whse lb. .10 - —
high abrasion, bulk, c.l., works. lb. .0750- —
bgs., c.l., works lb. .0790- —
l.c.l., dlvd. or whse lb. .122 - .125
high modulus, bgs., c.l., works. lb. .0550- —
ctns., l.c.l., whse lb. .0950- —
semi-reinforcing bgs., c.l., works lb. .045 - —
bgs., ctns., l.c.l., whse lb. .085 - —
Charcoal (see C).
Dyes (see Dyes).
Graphite (see G).
Iron oxide, pure, bgs., c.l., works. lb. .13¼- —
l.c.l., works lb. .13½- —
Lamp, bgs., c.l., works lb. .16 - .45
Mineral, bgs., works lb. .0160- .0675
Blackberry root bark, bls lb. .45 - —
Black haw root bark, bls lb. .63 - .65
tree bark, bls. lb. .40 - .45

Blanc fixe, dry, byproduct, bgs., c.l., works ton 190.00 - —
l.c.l., works ton 200.00 - —
direct process, bgs., c.l., works. ton 110.00 - —
l.c.l., works ton 120.00 - —
N. Y. whse ton 155.00 - —
Blood, dried, 16-16½% ammonia, unit-ton 5.50 - —
high-grade, unground, 16-17% ammonia, bgs., Chicago. unit-ton 5.75 - —
soluble, bgs., c.l. lb. .13 - .14
t.l. lb. .15 - .17
l.t.l. lb. .15½- .35½
Bloodroot, bls lb .48 - .50
Blue, alkali, dry, 250-lb. bbls., dlvd. N. of Tenn. and N. C., E. of Miss. R. including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis lb. 2.10 - —
toner, 125-lb. bbls., litho flushed, same basis lb. 1.20 - —
Chinese, bbls., c.l., same basis lb. .50 - —
l.c.l., ton lots, same basis lb. .51 - —
smaller lots, same basis lb. .52 - —
Cobalt, genuine, bbls., same basis. lb. 4.90 - —
Imitation (see Blue, ultramarine).
Dyes (see Dyes).
Iron (see Blue, Chinese Milori, Potash, Prussian and Soda).
Methyl, violet toner molybdated, PMA, bbls., same basis lb. 2.75 - —
tungstated, PTMA, bbls., same basis lb. 4.00 - 4.15
Milori, bbls., c.l., same basis lb. .50 - .55
l.c.l., ton lots, same basis lb. .51 - .56
smaller lots, same basis lb. .52 - .57
Peacock, fugitive, 100% color strength, bbls., same basis, lb. .85 - —
Phthalocyanine, full strength, bbls., same basis lb. 3.45 - —
resinated, bbls., same basis lb. 3.00 - —
water dispersable, bbls., same basis lb. 1.54 - —
Potash, CP, bbls., same basis lb. .56 - —
Prussian, insoluble soluble, bbls., c.l., same basis lb. .50 - —
l.c.l., ton lots, same basis lb. .51 - —
smaller lots, same basis lb. .52 - —
Soda, CP, bronze, bbls., c.l., same basis lb. .50 - —
l.c.l., ton lots, same basis, lb. .51 - —
smaller lots, same basis, lb. .52 - —
Ultramarine, cobalt type, dry or pulp, bbls., same basis lb. .30½- .35
jobbing types, bbls., same basis, lb. .19 - —
regular types, dry, bbls., same basis lb. .22½- .35
Victoria toner, molybdated, PMA, bbls. lb. 4.10 - —
tungstated, PTMA, bbls. lb. 5.35 - —
Blue dry colors, dlvd. prices ½c. higher Ala., Fla., Ga., La. (Shreveport 1¼c.), Miss., N. C., S. C., Tenn., Tex. (El Paso 2c), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph 1.6c. higher. Pac. Coast, Denver, Pueblo, Salt Lake City, Wichita, frt. equalized with Chicago.
Vitriol (see Copper sulfate).
Bluestone (see Copper sulfate).

Bonemeal, steamed, works, E. ton 55.00 - —
Los Angeles ton 82.00 - —
Bone phosphate defluorinated (see D) of lime (see Calcium phosphate, tribasic).
precipitated (see Calcium phosphate tribasic, NF precip.)
Borax, tech., anhyd., 99½%, bgs., c.l., works ton 80.50 - —
ton lots, ex whse, N. Y. or Chicago ton 130.25 - —
bulk, c.l., works ton 71.50 - —
cryst., 99½%, bgs., c.l., works. ton 69.25 - —
ton lots, ex-whse, N. Y. or Chi. ton 119.00 - —
smaller lots, same basis. ton 124.00 - —
gran., decahydrate, 99½%, bgs., c.l., works ton 43.25 - —
ton lots, ex whse., N. Y., Chi. ton 93.00 - —
smaller lots, same basis. ton 98.00 - —
bulk, c.l., works ton 36.75 - —
pentahydrate, 99½%, bgs., c.l., works ton 57.75 - —
ton lots, ex whse., N.Y., Chi ton 107.50 - —
smaller lots, same basis. ton 112.50 - —
bulk, c.l., works ton 51.50 - —
powd., 99½%, bgs., c.l., works. ton 48.25 - —
ton lots, ex-whse., N. Y. or Chi. ton 98.00 - —
smaller lots, same basis. ton 103.00 - —

Borax packed in kgs., $45.50 per ton higher than in paper bgs.; in barrels, $24.50 higher. USP borax $15 per ton higher.

the flame test shows how



FLAME RETARDANCY TEST

3 lacquers were formulated using same basic formula with exception of plasticizer. In Case A, it was Celluflex CEF; Case B, tricresyl phosphate; Case C, dibutyl phthalate.

Lacquers were sprayed on panels, then ignited for 7 seconds. Upon removal of flame, Panels B and C continued to burn but Panel A (Celluflex CEF lacquer) extinguished itself within 2 seconds!

GYMNASIUM BLEACHERS finished with Armstrong Fire-Resistant Lacquer to prevent the spread of fire. With this clear lacquer, all types of public facilities can be made fire-resistant: auditorium seats, assembly hall chairs, school desks, church pews. It can also be used on furniture, kitchen cabinets, plywood and wood paneling and convention hall booths.

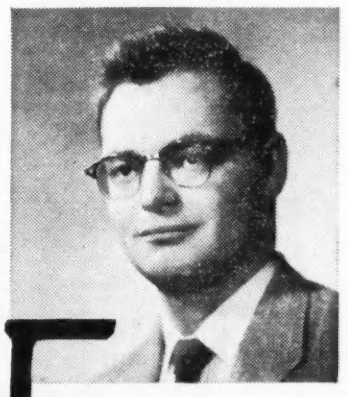
Photo courtesy of the Universal Bleacher Co. of Champaign, Ill.

Bordeaux mixture, bgs., c.l., works, frt. alld. or nearest whse, pt.	lb.	.18	.24
l.c.l., same basis	lb.	.19	.26
Borneol, cns	lb.	2.50	4.5
Boron trifluoride gas, cyls., truckload, works	lb.	.62	—
l.t.l., works	lb.	.70	—
Brazilwood extract (see Hypernic extract).			
Brimstone (see Sulfur).			
Bromine, purif, cs., c.l., t.l., dlvd. E. of Rockies	lb.	.32	—
l.c.l., same basis	lb.	.34	.39
ret. dms., c.l., t.l. dlvd E of Rockies	lb.	.31	—
l.c.l., same basis	lb.	.31	.33
tanks, same basis	lb.	.22½	—
Bromochloromethane, dms., c.l., frt. equald	lb.	.48	—
l.c.l., same basis	lb.	.50	—
Bromoform, pharmaceutical grade, bots	lb.	1.62	2.60
cbys.	lb.	1.52	—
Bromstyrol, bots	lb.	5.40	5.70
Bronze powder aluminum (see A).			
Brown iron oxide, pure bgs., c.l., works	lb.	.14¼	—
l.c.l., works	lb.	.14½	—
Oxide, metallic, bgs., works	lb.	.04	—
Sienna, burnt., paper bgs., c.l., works	lb.	.06¼	.17¼
l.c.l., works	lb.	.06½	.17½
raw, paper bgs., c.l., works	lb.	.06¼	.16¼
l.c.l., works	lb.	.06½	.16½
Umber, burnt, American, c.l., works	lb.	.07	.07¾
l.c.l., works	lb.	.07¼	.08
Turkey type, bgs., c.l., Boston, Bethlehem, Easton, Pa., Hiwassee, Va., N. Y.	lb.	.07¾	—
Brown, umber, raw, American, bgs., works	lb.	.07½	.08¼
Turkey-type, bgs., works	lb.	.06¾	.07
Vandyke, bbls., works	lb.	.09½	.12
Brucine, cns., 100-oz. lots	oz.	.20	.25
Sulfate, NF cns., 100-oz. lots	oz.	.15	.20
Buchu leaves, bls	lb.	1.10	1.25
Butadiene, refd., cyls., c.l. refy	lb.	.21	—
l.c.l., refy.	lb.	.22	—
tanks, refy	lb.	.15	—
Butane, indust., tanks, group 3	gal.	.04½	—
N. Y. harbor	gal.	.08	—
n-Butyl acetate, ferment., dms., c.l., frt. alld	lb.	.16	—
l.c.l., same basis	lb.	.17	—
tanks, same basis	lb.	.13½	—
syn., dms., c.l., dlvd. E	lb.	.16	—
l.c.l., same basis	lb.	.17	—
tanks, same basis	lb.	.13½	—
sec-Butyl acetate, syn., dms., c.l., dlvd. E	lb.	.13	—
l.c.l., same basis	lb.	.13¾	—
tanks, same basis	lb.	.11¼	—
Butyl alcohol (see Alcohol, n-Butyl).			
Aldehyde (see Butyraldehyde).			
Chloride, dms., c.l., works	lb.	.37½	—
l.c.l., works	lb.	.38¼	—
Ether, dms., c.l., works	lb.	.33	—
l.c.l., works	lb.	.33¾	—
tanks, works	lb.	.31	—
Lactate, dms., c.l., frt. alld. E. of Rockies	lb.	.42½	—
l.c.l., same basis	lb.	.43½	—
tanks, same basis	lb.	.40	—
Laurate, dms., works	lb.	.39	—
Methacrylate, dms., c.l., t.l., works.	lb.	.55	—
l.c.l., works	lb.	.55½	—
Oleate, refd., dms., l.c.l., works	lb.	.52	—
Phenylacetate, dms.	lb.	4.50	4.60
Phthalate (see Dibutyl phthalate).			
Stearate, dms., c.l., frt. equald.			
l.c.l., same basis	lb.	.26	—
Butylamine (see mono-, di-, and tri-).	lb.	.25	—
6-tert-Butyl-m-cresol, dms., c.l., works	lb.	.55	—
l.c.l., works	lb.	.56	—
tanks, works	lb.	.54	—
Butylated hydroxytoluene (see 2,6-Di-tert-butyl-p-cresol).			
p-tert-Butylphenol, bgs., c.l., works.	lb.	.27½	—
l.c.l.	lb.	.28½	—
Butyraldehyde, dms., c.l., dlvd	lb.	.22	—
l.c.l., dlvd	lb.	.23	—
tanks, dlvd	lb.	19½	—
Butyric ether (see Ethyl butyrate).			

C

Cacao butter (see Cocoa butter).			
Cadmium iodide, 25-lb. fib. dms	lb	6.75	7.00
Metal ingots or sticks, cs., dlvd.	lb.	1.70	—
Caffeine, USP, nat., cryst., anhyd., dms., 100-lb. lots or more	lb.	3.00	—
hydrous, dms., 100-lb. lots or more	lb.	2.80	—
Syn., cryst, anhyd., dms., 100-lb. lots or more	lb.	3.00	—
hydrous, 100-lb. lots or more	lb.	2.80	—
Citrated, USP, dms., 100-lb. lots or more	lb.	2.70	—
Calamine, USP, dms	lb.	.34	—
Calciferol, cryst., vials, 1-kilo lots, works	gram.	.60	—
25 to 100 gram lots, works.	gram.	.65	—
in edible oil (see Viosterol)			
Calcium p-aminosalicylate, fib. dms., 100 lbs. or more, frt. adjusted.	lb.	4.00	—
Arsenate, dealers, bgs., c.l., frt. alld	lb.	.09	.09¼
l.c.l., same basis	lb.	.10	.10½
Bromide, NF, 100 lbs. or more	lb.	.92	—
Carbide, standard generator size, dms., c.l., dlvd	ton	134.40	—
Carbonate, nat., dry-grd., air floated,, 325 mesh, bgs., c.l., works	ton	10.50	—
chalk whiting, 325 mesh, bgs. works	ton	32.00	34.00
water-grd., ½ to 10 microns, bgs., c.l., works	ton	30.00	—
10 to 20 microns, bgs., c.l., works	ton	17.00	18.00
precip., dense, bgs., c.l., works	ton	32.50	—
l.c.l., works	ton	42.50	—
medium, bgs., c.l. works	ton	38.00	—
l.c.l., works	ton	48.00	—
surface treated, bgs., c.l., works	ton	37.50	—
l.c.l., works	ton	47.50	—
ultrafine, bgs., c.l., works.	ton	110.00	160.00
l.c.l., works	ton	120.00	175.00
Chloride, cryst., purif., dms	lb.	.27	—
flake, 77-80%, paper bgs., c.l., works, frt. equald	ton	29.00	—
liquor, 40%, tanks, frt. equald.	ton	12.35	—
pellets, bgs., c.l., works	ton	35.40	—
powd., bgs., c.l., works	ton	35.00	—
solid, 73-75%, dms., c.l., frt. equald	ton	27.50	—
l.c.l., works, frt. equald.	ton	34.00	71.00
USP, gran., dms.	lb.	.32	—
Chromate, bgs., frt., equald	lb.	.29½	.30
Cyanide, dms., c.l., dlvd. E. of Rockies	lb.	.20	—
l.c.l., same basis	lb.	.24	.55
Cyclamate, 100-lb. fib. dms	lb.	2.95	—
Gluconate, AA, bbls., dms	lb.	.74	.76
USP, bbls., dms	lb.	.67	.69
Hydride, dms., works	lb.	2.15	3.00
Hypochlorite, high test, 45-lb., cs., dlvd. E of Rockies	cs.	22.60	24.75
100-lb dms., same basis	dm	28.65	32.50
Hypophosphite, dms., ton lots or less	lb.	.90	.93
frt. equald	lb.	.27¼	—
Iodide, jars	lb.	4.52	—
Lactate, NF, dms., 10,000-lb. lots or more, works	lb.	.36	.40
Mandelate, USP, dms., works	lb.	2.10	2.25
smaller lots, works	lb.	.41	.48
Naphthenate liq., 4% Ca., dms.,			
Nitrate, fertilizer grade, bgs., c.l., Los Angeles	ton	46.00	—
tech., 5-dm. lots, works	lb.	.13	—
Pantothenate, dms., bots., frt. adjusted	gram.	.045	—
Para-aminosalicylate (see Calcium p-Aminosalicylate).			
Phenolsulfonate, dms	lb	.70	—
Phosphate, dibasic, USP, bgs., c.l., frt. equald 100 lbs.		7.75	—
l.c.l., frt. equald 100 lbs.		8.50	—
feed grade, 18½%P, bgs., c.l., t.l., frt. equald	ton	79.55	83.25
l.c.l., frt. equald	ton	89.55	93.25
21% P, bgs., c.l., t.l., frt. equald	ton	94.50	—
l.c.l., frt. equald	ton	99.50	104.50
monobasic, bgs., 10,000-lb. lots, frt. equald 100 lbs.		6.90	—
smaller lots, same basis, 100 lbs.		7.40	—
tribasic, NF, precip., bgs., c.l., works, frt. equald 100 lbs.		8.75	—
l.c.l., frt. equald 100 lbs.		9.00	—
Phytate, bgs., works	lb.	.50	—
Resinate, precip., dms., frt. alld., works	lb.	.30½	—
Silicate, hydrated, bgs., c.l., works.	lb.	.06	—
l.c.l., works	lb.	.06½	—
paint grade (see Wollastonite)			
Stearate, ctns., c.l.	lb.	.37	—
l.c.l.	lb.	.38	.42
Sulfate (see Gypsum)			
Calomel, USP, powd., dms	lb.	.42	—
Camphene 46° m.p., dms., incl., c.l., works	lb.	.15	—
l.c.l., same basis	lb.	.16½	—
tanks, same basis	lb.	.12½	—
Chlorinated, 67-69% (see Toxaphene).			
Camphor, monobromated, NF, dms., kgs	lb.	3.55	—
nat. USP, powd., cs., 100-lb. lots.	lb.	.60	.65
tablets, 1-oz., ½-oz. cs	lb.	.85	.90
syn., tech., 1 bbl. or more	lb.	.48	—
USP, gran., powd., bbls., 2,000-lb. lots	lb.	.59	—
1,000-lb. lots	lb.	.60	—
smaller lots	lb.	.61	—
tablets, tins, 2,000-lb. lots	lb.	.90	—
1,000-lb. lots	lb.	.91	—
smaller lots	lb.	.92	—
Canada balsam (see Fir balsam).			
Cantharides, Chinese, cs	lb	2.00	2.05
powd., bxs	lb	2.25	2.30
Russian, bgs	lb	4.00	4.05
powd., bxs	lb.	4.35	4.40
Capsicum (see Pepper red).			
Oleoresin, NF, from domestic pepper, dms	lb	4.50	5.25
from African pepper, dms	lb	4.35	5.00
Caraway seed, Dutch, bgs.	lb.	.16	—
Carbazole, 97%, bbls., ton lots, works	lb.	1.05	—
Carbon black (see Black, Carbon).			
Dioxide, indust., wholesale, bulk, dlvd. Metropolitan area	ton	73.00	115.00
	ton	73.00	115.00
cyls., same basis	lb.	.08	.09
solid, same basis	lb.	.035	.040
Disulfide, 55-gal. dms., c.l., works, frt. equald. to competitive points	lb.	.07	—
l.c.l., same basis	lb.	.08½	.09
5-gal. dms., 30 dms. to c.l., same basis	lb.	.13	—
less than 30 dms	lb.	.16	—
tanks, dlvd.	lb.	.0545	—
Tetrachloride, CP, consumers, dms., l.c.l., frt. alld	lb.	.12¼	.14½
tech., consumers, dms., c.l., frt. alld	lb.	.11¼	—
l.c.l., frt. alld	lb.	.13½	—
tanks, frt. alld	lb.	.10	—
Carboxymethyl cellulose (see CMC).			
Carbromal, NF, dms., 100-lb. lots, works	lb.	4.00	4.25
smaller lots, works	lb.	4.10	4.75
Cardamom seed, bleached, "A"	lb.	3.20	—
"B"	lb.	3.10	—
decorticated, Ceylon, cs	lb.	1.95	—
Guatemalan, cs.	lb.	2.90	—
green, Ceylon, bgs.	lb	2.10	2.15
Alleppey, bgs	lb.	2.15	2.20
Carmine, No. 40, NF, bulk, 100-lb lots or more, dlvd	lb.	14.40	—
smaller lots, dlvd	lb.	14.50	15.20

Ramond J. Otten, Lacquer Research Director, Armstrong Paint and Varnish Works, Chicago, Illinois



"Only CELLUFLEX CEF gives our lacquer the effective flame-retardancy desired..."—MR. OTTEN

"In developing Armstrong Fire-Resistant Lacquer, we tested many flame retardants. But not until we formulated with Celluflex CEF did we obtain the effective fire-retardant qualities we wanted. Celluflex CEF does not affect the water-white transparency or excellent durability of the lacquer. Since it adds less than 2 percent to the price of the lacquer, fire-retardancy is provided at a negligible cost."

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Public facilities (like the gym bleachers below), office and institutional furnishings—or any wood surface—can be made resistant to spread of fire. Celluflex CEF obviates the need for metallic flame retardants. The lacquer retains all of its beauty, clarity and durability.

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Celanese Corporation of America,
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180 Madison Avenue,
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Celanese CHEMICALS

CELLUFLEX® CELANESE®

Carotene, tech., 1,350,000 A units per gram, tins, 5-10 kilo lots, dlvd gram	.295	—
in carrot oil, 5,000,000 to 8,000,000 A units per lb, dms., works million units	.12	—
microcrystalline in oil, 400,000 A units per gram dms., dlvd. million units	.21	—
b-Carotene, pure, crystalline, 1,600,000 A units to 1,670,000 per gram., cns gram	.35	—
in vegetable oil, 400,000 A units per gram. cns. gram	.084	—
Carvol, bots lb	4.50	8.00
Cascara sagrada bark, bulk lb	.30	Nom.
Casein, dom., acid precip., standard, bgs., 10,000-lb. lots or more, shipt. point lb	.32	Nom.
premium, bgs., 10,000-lb. lots or more, shipt. point lb	.38	Nom.
Imp., acid-precip., grd., Argentine, bgs., c.l., duty paid lb	.22	.23
New Zealand, duty paid lb	.24	.25
Cashewnut shell liquid, treated, dms., c.l., Newark, N. J lb	.22	—
ton lots, same basis lb	23	—
dm. lots, same oasis lb	25	—
Cassia, Batavia, "A", bls lb	.19½	.20
"B" lb	.19	.20
"C" lb	.17½	.18
Corinje "A" lb	.20	—
"B" lb	.19½	—
"C" lb	.18¾	.19

Castor beans, bgs., f.o.b. Brazil ton	155.00	Nom.
Oil (see Oil, castor)		
Pomace, bgs., c.l., works ton	35.00	-40.00
Castoreum, nat., cns lb	5.25	-30.00
syn., cns lb	9.00	—
Catechol, CP, cryst., fib. dms., works lb	2.17½	—
resub., dms., works lb	4.29½	—
Catnip leaves, Southern, bls lb	.75	—
Celery seed, French, bgs lb	.42	.44
Indian, bgs lb	.18½	.19
Cellulose acetate, flake, powd., ctns., bgs., 100-lb lots or more, dlvd E lb	.35	.40
Acetate-butyrate, powd., 17% butyryl content, bgs., dlvd E. lb	.545	.555
27% butyryl content, bgs., dlvd. E lb	.595	.605
38% butyryl content, bgs., dlvd. E lb	.545	.555
50% butyryl content, bgs., dlvd E lb	.585	.595
half-second, bgs., dlvd E. lb	.545	.555
Scrap (see Pyroxylin scrap).		
Cerium chloride, dms., dlvd lb	.35	—
Hydrate 74% CeO_2, fib. dms., 100-lb lots or more lb	1.44	—
77% CeO_2, fib dms., 100-lb. lots or more lb	1.74	—
Oxalate, NF, bgs., works lb	1.00	—
Oxide, optical grade, bgs., 50-lb. lots or more, dlvd lb	1.85	1.90
smaller lots, dlvd lb	2.03	2.23
Chalk (see Calcium carbonate).		

Chamomile flowers, Hungarian style, cs lb	.78	—
Roman, cs lb	1.50	—
Charcoal, activated, NF, fib. dms., c.l., works lb	.25	.32
5-ton lots, works lb	.26½	.32½
smaller lots, works lb	.27	.50
Bone (see Black, bone).		
Hardwood, bulk, lump, c.l., f.o.b. plant ton	55.00	—
briquets, bulk, c.l., f.o.b. plant, ton	75.00	-80.00
5 lb. paper bags, c.l., same basis ton	108.00	—
10 lb. paper bags, c.l., same basis ton	95.00	-98.00
25 lb. paper bags, c.l., same basis ton	82.00	-88.00
40-lb. paper bgs., c.l., same basis ton	81.00	-85.00
Pinewood, gran., bgs., c.l., works, South ton	57.00	—
l.c.l., works, South ton	57.00	-67.00
lump, bgs., c.l., works, South ton	53.50	—
l.c.l., works, South ton	56.50	-71.00
bulk, c.l., works, South ton	38.00	—
t.l., works, South ton	41.00	—
Chestnut extract, Italian, solid, 60% tannin, bgs., exdock, plus duty lb	.09½	—
powd., 70% tannin, bgs., exdock, plus duty lb	.10½	—
Chloral, tech., 94% min., dms., c.l., works lb	.23	—
l.c.l., works lb	.24	—
tanks, multiple units, 5 cars, works lb	.21	—
Hydrate, USP, 40-lb jars, 1,000 lb. lots lb	1.00	—
500-lb. lots lb	1.03	—
100-lb. lots or less lb	1.05	—
Chloramine T, NF, bbls., works lb	.75	1.00

Chlordan, agricultural, dms., c.l., frt alld lb	.65	—
l.c.l., 5,000 to 10,000-lb. lots, frt. alld lb	.66	—
clarif., dms., c.l., frt. alld lb	.69	—
l.c.l., 5,000 to 10,000-lb. lots, frt. alld lb	.70	—
Chlorinated paraffin, 42%, dms., c.l., frt. alld lb	.16¼	—
l.c.l., same basis lb	.17¼	—
70%, dms., c.l., same basis lb	.18¾	—
l.c.l., same basis lb	.19¾	—
Rubber, 5, 10, 20 cps., ctns., c.l., works lb	.55	—
l.c.l., works lb	.56	—
125, 1,000 cps., ctns., c.l., works lb	.65	—
l.c.l., works lb	.66	—
Chlorine, liq., cyls., c.l., works, frt. equald lb	.10¼	—
l.c.l., Metropolitan area lb	.11¾	.13
tanks, single units, works, frt. equald 100 lbs.	3.15	—
multiple units, 5 cars, works, frt. equald 100 lbs.	4.05	—
3 cars, same basis 100 lbs.	4.25	—
2 cars, same basis 100 lbs.	5.25	—
1 car, same basis 100 lbs.	7.25	—
4-Chloro-2-aminotoluene, fused, bbls. lb	1.45	—
m-Chloroaniline, dms., min. 10,000 lbs. or over, frt. alld lb	.75	—
less than 10,000 lbs., same basis. lb	.80	—
tanks, same basis lb	.73	—
o-Chloroaniline, dms., c.l., frt. alld. lb	.65	—
l.c.l., same basis lb	.67	—
tanks, same basis lb	.63	—
p-Chloroaniline, dms., c.l., frt. alld. lb	.77	—
l.c.l., same basis lb	.79	—
o-Chlorobenzaldehyde, dms., t.l., works lb	1.05	—
l.t.l., works lb	1.20	—
p-Chlorobenzaldehyde, dms., c.l., works lb	1.95	—
Chloroform, tech., dms., c.l., dlvd. E lb	.18	—
l.c.l., same basis lb	.19	—
tanks, same basis lb	.17	—
USP, dms lb	.30	—
2-Chloro-4-nitroaniline, paste, dlvd. E., 100% basis lb	.81	—
powd., dlvd. E., 100% basis lb	.86	—
4-Chloro-2-nitroaniline, powd., dlvd. E lb	.80	—
o-Chlorophenol, dms., c.l., frt. equald. lb	.37	—
l.c.l., same basis lb	.38	—
p-Chlorophenol, dms., c.l., frt. equald lb	.37	—
l.c.l., same basis lb	.38	—
Chloropicrin, coml., bots lb	1.50	—
cyls., 180 lbs., frt. alld lb	.95	—
100 lbs., same basis lb	.97	—
25 lbs., same basis lb	1.22	—
Choline bitartrate, fib. dms., frt. adjusted lb	1.25	1.35
Chloride, fib. dms., frt. adjusted. lb	1.25	1.35
Dihydrogen citrate, fib. dms., frt. adjusted lb	1.25	1.35
Chromium acetate, soln., 7½%, bbls., works lb	.09¼	—
cbys., works lb	.11¼	—
Fluoride, bbls., works lb	.51	.52
Green (see Green, chrome).		
Oxide (see Green chromium oxide)		
Trioxide, NF, bots lb	.82	.89
Yellow (see Yellow chrome).		
Cinchona bark, NF, red, broken, bgs lb	.35	.40
yellow, broken, bgs lb	.35	.40
Cinchonidine, cryst., cns., 100-oz. lots oz	.65	—
Sulfate, cns., 100-oz. lots oz	.35	—
Cinchonine, cryst., cns., 100-oz. lots. oz	.52	.57
Sulfate, NF, cns., 100-oz. lots oz	.27½	.30¼
Cinchophen, NF, heavy density, dms., frt. adjusted lb	3.70	4.05
standard density, dms., same basis lb	3.50	3.85
Cinchophen-sodium, dms., frt. adjusted lb	4.50	4.85
Cinnamic alcohol (see Alcohol cinnamic).		
Aldehyde, cns., dms lb	.95	1.25
Cinnamon, Ceylon, No. 2, bgs lb	.92	—
"000," bgs., afloat lb	1.00	Nom.
Citral, bots., cns lb	4.90	5.90
Citronellal, bots., dms lb	2.85	3.50
Citronellol, bots., dms lb	4.50	4.90
Civet, artif, bots lb	13.75	-15.00
nat., bots oz	8.50	-15.00
Clay, ball, dom., airfloated, bgs., c.l., Tenn ton	19.50	—
crushed, shed moisture, bulk, c.l., Tenn ton	10.00	—
purif., bgs., c.l., Tenn ton	20.50	—
imp., airfloated, bgs., c.l., Atl. port long-ton	42.00	-45.00
lump, bulk, Atl. port, long-ton	27.00	-30.20
China, dom., dry-grd., airfloat, 99% 325 mesh, bgs., c.l., Georgia, works ton	10.00	—
l.c.l., Georgia, works ton	15.50	—
300 mesh., bgs., c.l., Georgia, works ton	13.50	-14.50
l.c.l., Georgia works ton	35.00	-36.00
imp., white, lump, bulk, c.l., exdock, Phila., Portland, Me. gross ton	20.00	-35.00
powd., bgs., c.l., ex dock net ton	50.00	—
l.c.l., ex whse net ton	60.00	-65.00
Clove, Madagascar, bgs lb	.41	—
Zanzibar, bgs. lb	.48	—
CMC, crude, 96%, low or medium vis., bgs., or fib. dms., 23,000 lbs., dlvd. E., 100% basis lb	.39½	.41
less than 23,000 lbs., dlvd. E., 100% basis lb	.41½	.43
65%, low or medium vis., bgs., or fib. dms., c.l., dlvd. E., 100% basis lb	.39½	.41
l.c.l., dlvd. E., 100% basis. lb	.41½	.43
purif., high vis. (see Gum Cellulose).		
Standard, low or medium vis., bgs., 23,000 lbs. or over, works, frt. alld lb	.55	—
smaller lots, same basis lb	.57	—
CMC prices W. of the Rockies are 2c. per lb. lower and are on a works basis.		
Coaltar, crude, resale for solns., dms., c.l., ex-whse gal	.255	—
l.c.l., ex-whse gal	.275	—
tanks, ex works gal	.155	.159
refd., resale, dms., c.l., ex-whse, gal	.2650	.32
l.c.l., ex-whse gal	.2850	.34
tanks, ex-whse gal	.1650	.1760
Cobalt acetate, 23.7%, dms., dlvd. lb	1.20	—
Carbonate, 46% powd., bgs., dlvd. lb	1.85	—
Chloride, 24.2% Co., dms., dlvd. lb	1.20	—
Hydrate, 60-61% Co., dms., dlvd. lb	2.62	—
Lineoleate, fused, 8½% Co., dms. lb	.75¾	—
liq., 6% Co., dms lb	.61	—
Metal, 97-99%, kgs., ex whse lb	2.60	—
Naphtenate, liq., 6% Co., dms., dlvd lb	.48¼	—

Buying Chlorine?

Columbia-Southern's Traffic Department saves you time and money

Shipping chemicals is highly specialized work at Columbia-Southern.

With a product such as chlorine, whose consumption has been steadily increasing year after year, the benefits of an efficient, well-organized traffic and transportation department become increasingly evident to all Columbia-Southern chlorine customers.

When shipping facilities are taxed, Columbia-Southern's traffic department finds a way to overcome unnecessary delays. At all times, the best routes between points are precisely plotted. Costs in shipping undergo constant review and analysis to locate new economies. The best method of transporting is always considered. Innovations and improvements in equipment and handling practices are also frequently recommended by Columbia-Southern's traffic department.

As the nation's leading merchant producer of chlorine, Columbia-Southern is unsurpassed in chemical quality and customer service.

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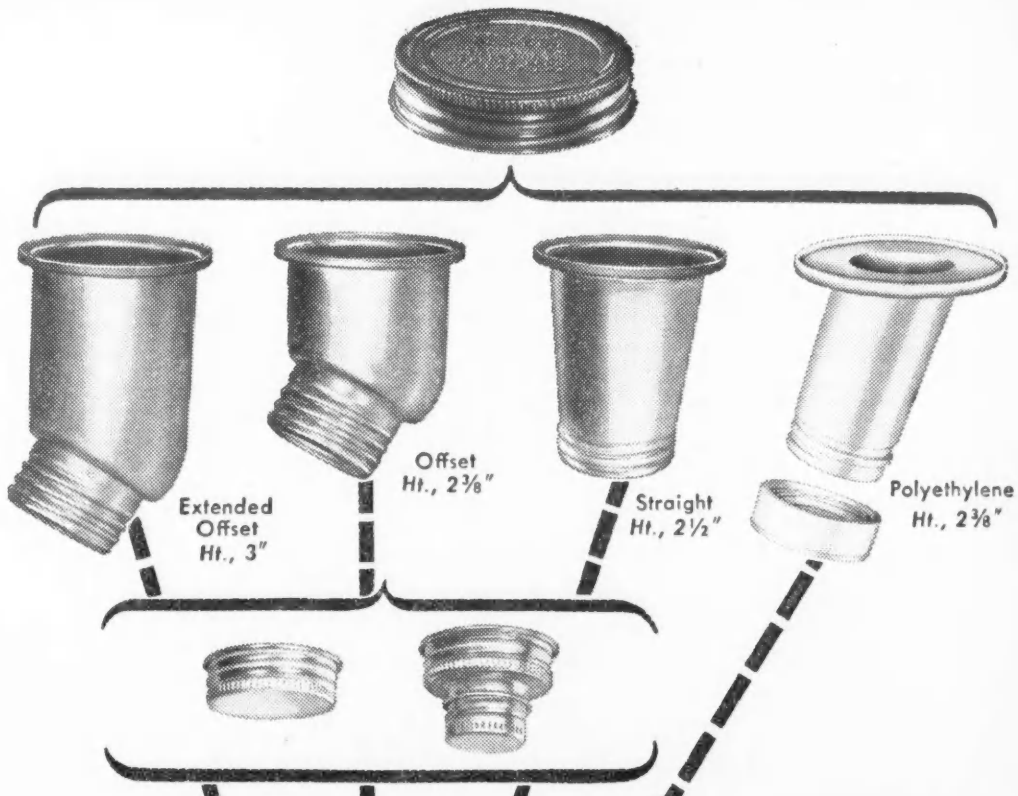

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***Tri-Sure*® Spout to fit your product**

Specify the Tri-Sure* 2¼" UV Nozzle and dust cap to your supplier. Then you may order from us any of these Tri-Sure Reversible Assemblies—to meet the needs of various products and markets. The 2¼" UV Screw Cap and instruction disc assembly are standard for these UV Spouts: extended offset, offset, straight spouts and polyethylene. Spout caps available for all spouts —reducer caps for metal spouts. The ease of reversal of the spout by the shipper or his customer is proving popular everywhere.

Give your products the sales advantage of these outstanding pail closures—the finest in quality, the most advanced in utility features. Send for samples now, and information about other Tri-Sure Closures for drums and pails.

Spout reverses for easy shipping pouring . . . stacking

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CLOSURES

AMERICAN FLANGE & MANUFACTURING CO. INC., 30 ROCKEFELLER PLAZA, NEW YORK 20, N.Y.
CHICAGO, ILL. · NILES, OHIO · LINDEN, N. J.

Tri-Sure Products Limited, St. Catharines, Ontario, Canada
Tri-Sure S/A Indústria e Comércio, Sao Paulo, Brazil
American Flange & Manufacturing Co. Inc. Miowera Road, Villawood, N.S.W., Australia
B. Van Leer N. V., Stadhouderskade 6, Amsterdam, Holland
Van Leer Industries, Ltd., Seymour House, 17 Waterloo Place, Pall Mall S.W. 1, London, England

Cobalt nitrate, 20.1% Co., bbls., dlvd. lb. 1.00 • —
Oxide, black, 72½-73½% Co., kgs. lb. 1.96 • —
70-71% Co., kgs. lb. 1.90 • —
Phosphate, powd., 32.1% Co., kgs., dlvd lb. 1.69 • —
Resinate, fused, 3% Co., dms. lb. .29¾- —
Sulfate cryst., 21% Co., dms., dlvd lb. .79 • —
monohydrated, 33% Co., dms., dlvd lb. 1.32 • —
Tallate, 6% Co., dms., dlvd lb. .43¾- —
Cocaine, USP, cns., 100-oz. lots oz. 17.80 • —
Hydrochloride, cns., 100-oz. lots. oz. 13.75 • —
Cocoa butter, bgs. lb. .48 • .51
Codeine, NF, cns., 100-oz. lots oz. 13.25 • —
Hydrochloride, cns., 100-oz. lots. oz. 11.75 • —
Phosphate, USP, cns., 100-oz. lots oz. 10.25 • —
Sulfate, USP, cns., 100-oz. lots oz. 10.75 • —
Codliver oil (see Oil, codliver).
Cohosh root, black, bls lb. .20 • .22
blue, bls lb. .20 • .22
Colchicine, USP, bots., cns. oz. 33.50 • 40.00
Colchicum root, bls lb. .45 • .55
seed, bgs lb. .75 • 1.00
Collodion, USP, dms. lb. .32½- —
flexible, dms lb. .34 • —
Colocynth, pulp, bls. lb. .25 • .30
Colombo root, bls lb. .15 • .16
Condurango bark, bales lb. .40 • .50
Copaiba balsam, cns., dms lb. .90 • 1.20

Copper acetate, bbls., c.l., works lb. .53 • —
l.c.l., works lb. .54 • —
Carbonate, 55%, bgs., c.l., works. lb. .3775- —
l.c.l., works lb. .3925- —
Chloride, anhyd., dms., works lb. .47½- .47¾
cryst., dihydrate, dms., works lb. .32¼- .32¾
dried, dms., works lb. .40½- .41
Cyanide, tech., bbls., 20,000-lb. lots or more lb. .77½- —
1,000-lb. lots or more lb. .78½- —
smaller lots lb. .80½- —
Gluconate, dms. lb. 3.15 • 3.35
Hydrate, dms., c.l., frt. alld. E. of Miss. lb. .57 • —
l.c.l., same basis lb. .57½- —
Metal, electrolytic, dlvd., Valley basis lb. .40 • —
Naphthenate, liq., 8% Cu, dms., frt. alld lb. .24½- —
Nitrate, tech., cryst., bbls., works. lb. .33¼- —
Oleate, solid, 9% Cu, dms., works lb. .45 • —
Oxide, black, bbls., 100-2,000-lb. lots, works lb. .54 • —
red, 97%, USN Type I, bbls., 100-5,000 lb. lots lb. .64½- —
90% USN Type II, bbls., 100-5,000 lots or more, works. lb. .62½- —
Oxychloride, dms., c.l., works lb. .53 • —
l.c.l., works lb. .53½- .63½
Quinolinolate, fib. dms. lb. 4.25 • 4.50

Copper resinate, precip., dms., frt. alld lb. .31½- —
Sulfate, CP, gran., bbls., works lb. .2210- —
cryst., 99%, bgs., c.l., works, 100 lbs. 15.20 • —
l.c.l., same basis 100 lbs. 15.70 • 18.20
monohydrated, 35%, dms., c.l., works, 100 lbs. 25.00 • —
l.c.l., works 100 lbs. 25.75 • —
tribasic, dealers, bgs., c.l., works, frt. equald 100 lbs. 32.65 • —
l.c.l., same basis 100 lbs. 33.65 • 36.65
Undecylenate, dms. lb. 2.00 • 3.00
Copra, Atlantic, Gulf ports, c.i.f. ton. 156.50 • —
Pacific Ports, c.i.f. ton. 152.50 • —
Coriander seed, Moroccan, bgs. lb. .10½- .11
Roumanian, bgs lb. .09 • .09½
Yugoslavian, bgs lb. .08½- —
Corn sugar, tanners, chipped, paper bgs., c.l., 60,000 lbs. min. 100 lbs. 7.26 • —
l.c.l. 100 lbs. 7.51 • —
Syrup, 42°, non-ret. dms., c.l. 100 lbs. 7.34 • —
l.c.l. lb. 7.49 • —
Corrosive sublimate (see Mercuric chloride).
Cortisone acetate, NNR, bulk gram. 3.50 • 3.55
Cottonseed meal, expeller, 41% bgs., bgs., Memphis ton. 56.00 Nom.
solvent, same basis ton. 53.00 • —
Cramp bark, NF, bls lb. .85 • .90
Coumarin, NF, cryst., dms. lb. 3.60 • —
Cream of tartar (see Potassium bitartrate).
Creosote carbonate, NF, bots. cbys. lb. 3.05 • 3.26
Coaltar, crude, tanks, works, frt. adjusted gal. .22 • —
soln., 80%, tanks, works gal. .2068- —
retd., dms., c.l., works gal. .42 • .44
l.c.l., same basis gal. .53 • .55
tanks, same basis gal. .33 • .35

Creosote, wood, beechwood, cbys., dms. lb. 1.60 • 1.65
hardwood, NF, bots., cbys. lb. 1.30 • 1.35
pinewood, dms., c.l., incl. lb. .0561 • —
l.c.l., incl. lb. .0634- —
N. Y. whse. lb. .0745- —
tanks, works lb. .0460- —
Cresol, tech., 50% below 204°C., dry above 207°C., wide distillation range, non-ret., dms., c.l., frt. equald lb. .1625- —
l.c.l., same basis lb. .1675- —
tanks, same basis lb. .145 • —
USP, non-ret. dms., c.l., same basis lb. .1775- —
l.c.l., same basis lb. .1825- —
tanks, same basis lb. .160 • —
m-Cresol, 95-98%, dms., c.l., works. lb. .60 • —
l.c.l., works lb. .61 • —
m-p-Cresol, 5-95%, 3°C., dms., c.l., frt. equald lb. .1775- —
l.c.l., same basis lb. .1825- —
tanks, same basis lb. .160 • —
2-97%, 2°C., dms., c.l., frt. equald. lb. .2175- —
l.c.l., same basis lb. .2225- —
tanks, same basis lb. .200 • —
o-Cresol, m.p. over 30°C., ret. dms., c.l., frt. equald lb. .16¾- .17¾
l.c.l., same basis lb. .17¼- .18¼
tanks, same basis lb. .15 • .16
29°C., ret., dms., c.l., frt. equald. lb. .15¾- .16
l.c.l., same basis lb. .16¼- .16½
tanks, same basis lb. .14 • .15
25-29°C., dms., c.l., frt. equald. lb. .14¾- .15¾
l.c.l., same basis lb. .15¼- .16¼
tanks, same basis lb. .13 • .14
p-Cresol, 98% dms., c.l., dlvd. lb. .50 • —
l.c.l., dlvd. lb. .51 • —
tanks, dlvd. lb. .49 • —
Methyl ether, cns. lb. 1.80 • 2.05
Crotonaldehyde, 91-93%, dms., l.c.l., works lb. .24¼- .25
Cryolite, nat., indust., bgs., c.l., works 100 lbs. 13.00 • —
l.c.l., works 100 lbs. 14.25 • —
Insecticide, dealers, bgs., c.l., dlvd 100 lbs. 16.75 • —
l.c.l., dlvd. 100 lbs. 17.75 • —
Cube root, powd., 5% rotenone, bgs., c.l., t.l., works lb. .29 • —
Cubeb berries, XX, NF, bgs. lb. .60 • .65
powd., cs. lb. .75 • .80
Cumene, dms., c.l., works lb. .12 • —
l.c.l., works lb. .14 • —
tanks, works lb. .11 • —
l.c.l., works lb. .30 • —
Cumin seed, Iranian, bgs. lb. .14 • .14½
Turkish, bgs. lb. .14½- .15
Cutch extract, 55% tannin, bgs., ex dock, duty extra lb. .08½- —
Cyanamide, fertilizer mixing grades, 21% N, gran., bgs., Niagara Falls, Ont., contract ton. 55.00 • —
pulv., 21% N, bgs., works, unit-ton 2.75 • —
Indust. grade, c.l., works ton. 75.00 • —
l.c.l., bgs., works ton. 96.00 • —
6-16 mesh, dms., c.l., works ton. 120.00 • —
l.c.l., works ton. 140.00 • —
Cyclohexane, 99% tech., dms., c.l., works gal. .70 • —
l.c.l., works gal. .72 • —
tanks, works gal. .55 • —
Cyclohexanol, tech., dms., c.l., works, frt. alld., E lb. .28 • —
l.c.l., works, same basis lb. .29 • —
tanks, works, same basis lb. .24 • —
Cyclohexanone, tech., dms., c.l., works lb. .32½- —
l.c.l., works lb. .35 • —
tanks, works lb. .29 • —
Cyclohexene, min. 98%, b.r. 82.5°C-85°C, 360-lb. dms., c.l., works lb. .55 • —
l.c.l., same basis lb. .60 • —
tanks, same basis lb. .52 • —
Cyclohexylamine, dms., c.l., works. lb. .46½- —
l.c.l., works lb. .48½- —
tanks, works lb. .45 • —
Cyclopropane CP, 2-lb. cyls., works. cyl. 48.00 • —
6 oz. cyls., works cyl. 12.00 • —
USP, hospitals, cyls., 40-gal. lots, gal. .38 • —
100-gal. lots gal. .37 • —
200-gal. lots gal. .36 • —

D

2-4-D, tech., dms., c.l., works, frt. equald lb. .37 • —
l.c.l., same basis lb. .42 • .46
Butyl ester, dms., c.l., works. lb. .40 • —
l.c.l., same basis lb. .45 • .49
tanks, same basis lb. .39 • —
Isopropyl ester, dms., c.l., works. lb. .40 • —
l.c.l., works lb. .45 • .49
tanks, works lb. .39 • —
Dandelion root, bls lb. .35 • .40
DDD, tech., flake, grd., fib. dms., c.l., works lb. .45 • —
l.c.l., works lb. .46 • —
DDT powder, bgs., c.l., works, frt. equald lb. .23 • .27
smaller lots, same basis lb. .24 • .28
fib. dms., c.l., same basis lb. .24 • .28
smaller lots, same basis lb. .25 • .29
l-Decanol, tech., dms., c.l., dlvd. lb. .41 • —
l.c.l., dlvd. lb. .43 • —
tanks, dlvd. lb. .38½- —
Deertongue leaves, bls lb. .45 • —
Defluorinated phosphate, feed grade, 13% P, paper bgs., c.l., t.l., works ton. 49.50 • —
17% P, paper bgs., c.l., t.l., works ton. 58.00 • —
18% P, paper bgs., c.l., t.l., works ton. 64.10 • —
Prices of defluorinated phosphate in bulk $3 per ton less than bag carlot prices.
Degras, neutral, bbls lb. .10 • .18
d-Desoxyephedrine hydrochloride, bots lb. 24.00 • 25.00
dl, bots lb. 6.50 • —
Dextrin, corn, gum, paper bgs., c.l. 100 lbs. 9.28 • —
l.c.l. 100 lbs. 9.43 • —
canary, dark, paper bgs., c.l. 100 lbs. 9.12 • —
l.c.l. 100 lbs. 9.27 • —
light, paper bgs., c.l. 100 lbs. 9.02 • —
l.c.l. 100 lbs. 9.17 • —
white, paper bgs., c.l. 100 lbs. 8.86 • —
l.c.l. 100 lbs. 9.01 • —
Corn dextrin in cotton bgs. 15c. per 100 lbs. higher.
Potato, imported, bgs. lb. .10½- .11
Dextrose, USP, dms. lb. .17¾- —
Diacetone (see Alcohol diacetone).
Diacetyl, flavor grade, bots. lb. 4.25 • 5.50
Di-sec-amyl phenol, dms., c.l., works lb. .32 • —
l.c.l., works lb. .33 • —
tanks, works lb. .29½- —
Di-tert-amyl phenol, dms., c.l., works lb. .32 • —
l.c.l., works lb. .33 • —
tanks, works lb. .29½- —
o-Dianisidine, fib. dms. lb. 2.00 • —

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Diethylene glycol's ability to absorb moisture rapidly makes it valuable both as a humectant and as a dehydrant. It's also a solvent and chemical intermediate.

Mathieson diethylene glycol will meet your most exacting requirements of quality and supply. It's available in tank cars, tank trucks and resin-lined drums directly from the manufacturing point at Brandenburg, Ky., or from strategic distribution points. Contact your Olin Mathieson representative today.

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INDUSTRIAL CHEMICALS DIVISION • BALTIMORE 3, MD.

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ORGANIC CHEMICALS: Ethylene Oxide • Ethylene Glycols • Polyethylene Glycols • Glycol Ether Solvents • Ethylene Dichloride • Dichloroethylether • Formaldehyde Methanol • Sodium Methylate • Hexamine • Ethylene Diamine • Polyamines • Ethanolamines • Trichlorobenzene • Polychlorobenzene • Trichlorophenol

Dibenzyl sebacate, dms., c.l., works.	lb.	.89¾-	.90
l.c.l., same basis	lb.	.90¼-	.91
tanks, same basis	lb.	.88 -	—
p-Dibromobenzene bgs., 500-lb. lots.	lb.	.55 -	—
Dibutyl phthalate, dms., c.l., dlvd. E	lb.	.32½-	—
l.c.l., same basis	lb.	.33½-	—
tanks, same basis	lb.	.30 -	—
Sebacate, dms., c.l., works	lb.	.66 -	—
l.c.l., works	lb.	.66½-	.67
tanks, works, dlvd	lb.	.64 -	.64½
Tartrate dms. works, frt. alld	lb.	.64 -	—
Dibutylamine, dms., c.l., dlvd	lb.	.55½-	—
l.c.l., same basis	lb.	.56½-	—
tanks, same basis	lb.	.53 -	—
2,6-Di-tert-butyl-p-cresol, food grade, dms., t.l., c.l., dlvd	lb.	1.20 -	—
l.t.l., dlvd	lb.	1.24 -	—
tech., dms., c.l.	lb.	.91 -	1.00
l.c.l.	lb.	.95 -	1.04
tanks	lb.	.86 -	.95
Dicapryl phthalate dms. c.l., dlvd.,	lb.	.31 -	.32
l.c.l., dlvd	lb.	.32 -	.33
tanks, dlvd	lb.	.29½-	—
Sebacate dms., c.l., works	lb.	.63 -	—
l.c.l., works	lb.	.63½-	.64
tanks, works	lb.	.61 -	—
2,5-Dichloroaniline, dms., works	lb.	.83 -	—
o-Dichlorobenzene dms. c.l., frt. alld. E	lb.	.12¼-	—
l.c.l., same basis	lb.	.13¼-	—
tanks, same basis	lb.	.10¾-	—
p-Dichlorobenzene dms., c.l., frt. alld. E	lb.	.14½-	—
l.c.l., same basis	lb.	.17 -	—
1,4-Dichlorobutane, dms., c.l. or t.l., works	lb.	.33½-	—
l.c.l., or l.t.l., works	lb.	.34 -	—
tanks, works	lb.	.32 -	—
Dichlorodiphenyltrichloroethane (see DDT).			
Dichloropentanes, dist., dms., c.l., works	lb.	.05 -	—
l.c.l., works	lb.	.06 -	—
tanks, works	lb.	.03 -	—
Dicyclohexylamine, dms., c.l., works.	lb.	.51 -	—
l.c.l., works	lb.	.51¾-	—
tanks, works	lb.	.49½-	—
Dicyclohexyl phthalate, fib. dms., c.l., works, frt. alld	lb.	.58¼-	.59
l.c.l., same basis	lb.	.59¼-	.60
Didecyl phthalate, dms., c.l., works.	lb.	.34 -	—
l.c.l., same basis	lb.	.35 -	—
tanks, same basis	lb.	.31½-	—
Dieldrin, dms., frt. alld	lb.	1.80 -	—
l.c.l., frt. alld	lb.	1.85 -	—
Diethanolamine, dms., c.l., dlvd. E.	lb.	.27 -	—
l.c.l., same basis	lb.	.28 -	—
tanks, same basis	lb.	.24½-	—
Diethyl carbonate, dms., c.l., t.l. alld	lb.	.47 -	—
l.c.l. same basis	lb.	.48 -	—
tanks, same basis	lb.	.45 -	—
Ethanolamines, dms., c.l., dlvd.	lb.	.69½-	—
l.c.l., dlvd	lb.	.70½-	—
tanks, dlvd	lb	.67 -	—
Oxalate, dms., c.l., frt. alld	lb.	.42 -	—
l.c.l. same basis	lb.	.43 -	.45
tanks same basis	lb.	.40 -	—
Phthalate, dms., c.l., dlvd	lb.	.29½-	.30
l.c.l., dlvd	lb.	.30½-	.31
tanks, dlvd	lb.	.27 -	.27½
Sulfate, dms., c.l., works	lb.	.19 -	—
l.c.l., works	lb.	.19¾-	—
tanks, works	lb.	.17 -	—
Diethylamine, dms., c.l., dlvd. E	lb.	.51 -	—
l.c.l., same basis	lb.	.52 -	—
tanks, same basis	lb.	.48½-	—
N,N-Diethylaniline, dms., c.l., frt. alld	lb.	.51 -	—
l.c.l., same basis	lb.	.52 -	—
tanks, same basis	lb.	.50 -	—
Di-2-ethylhexyl adipate (see Dioctyl adipate).			
Phthalate (see Dioctyl phthalate).			
Diethylene glycol, dms., c.l., dlvd. E.	lb.	.17¾-	—
l.c.l., same basis	lb.	.18¾-	—
tanks, same basis	lb.	.15¼-	—
Boriborate, dms., l.c.l.	lb.	.31 -	—
Diethyl ether, dms., c.l., works.	lb.	.47½-	—
l.c.l., works	lb.	.48¼-	—
Monobutyl ether, dms., c.l., dlvd. E	lb.	.30¾-	—
l.c.l., dlvd. E	lb.	.31¾-	—
tanks, dlvd. E	lb.	.28¼-	—
Acetate, dms., c.l., works	lb.	.30¼-	—
l.c.l., works	lb.	.31 -	—
tanks, dlvd E	lb.	.28¼-	—
Monoethyl ether, dms., c.l., dlvd	lb.	.22½-	—
l.c.l., dlvd	lb.	.23½-	—
tanks, dlvd	lb.	.20 -	—
Acetate, dms., c.l., works	lb.	.27¼-	—
l.c.l., works	lb.	.28 -	—
tanks, dlvd. E	lb.	.25¼-	—
Monomethyl ether, dms., c.l., dlvd	lb.	.20½-	—
l.c.l., dlvd	lb.	.21½-	—
tanks, dlvd	lb.	.18½-	—
Diethylenetriamine, dms., c.l., dlvd. E	lb.	.44 -	—
l.c.l., dlvd. E	lb.	.45 -	—
tanks, dlvd. E	lb.	.41½-	—
Diethylstilbestrol, USP, bots., 10-kilo lots	kilo.	100.00	147.50
1 kilo lot	kilo.	110.00	152.50
Digitalis leaves, USP, dom., dms.,	lb.	1.10 -	1.25
Digitoxin, USP, bots	gram.	5.00	5.50
Diglycol laurate, dms	lb.	.35 -	.38
Stearate dms., ton lots	lb.	.25 -	—
Dihexyl sebacate, dms., c.l., works.	lb.	.64 -	—
l.c.l., works	lb.	.64½-	.65
tanks, works	lb.	.62 -	—
Dihydrazine sulfate, dms., works.	lb.	1.10 -	1.25
Dihydrostreptomycin hydrochloride, bulk	gram.	.07 -	.0745
Sulfate, bulk	gram.	.07 -	.0745
1,2-Dihydroxy anthraquinone, dms., works	lb.	2.75 -	—
2,2-Dihydroxy-5-5-dichloro-diphenyl-methane, pure, dms	lb.	2.55 -	—
tech., dms	lb.	1.09 -	—
Di-isobutyl ketone, dms., c.l., dlvd.	lb.	.16½-	—
l.c.l., dlvd	lb.	.17½-	—
tanks, dlvd	lb.	.14 -	—
Phthalate, dms., c.l., dlvd. E	lb.	.31½-	—
l.c.l., same basis	lb.	.32½-	—
tanks, same basis	lb.	.29 -	—
Di-isobutylene, dms., c.l., dlvd. E	lb.	.10 -	—
l.c.l., dlvd. E	lb.	.11 -	—
tanks, dlvd E	lb.	.08 -	—
Di-iso-octyl pnthalate, dms., c.l., dlvd	lb.	.31 -	.33
l.c.l., same basis	lb.	.32 -	.34
tanks, same basis	lb.	.28½-	.30½
Sebacate, dms., c.l., works	lb.	.63½-	—
l.c.l., works	lb.	.64½-	—
tanks, works	lb.	.61 -	—
Di-isopropanolamine, dms., c.l., dlvd.	lb.	.23¼-	—
l.c.l., same basis	lb.	.24¼-	—
tanks, same basis	lb.	.20¾-	—
Di-isopropylamine, dms., c.l., dlvd. E. of Rockies	lb.	.50½-	—
l.c.l., same basis	lb.	.51½-	—
tanks, same basis	lb.	.48 -	—
Dillseed, dewhiskered, bgs	lb.	.10 -	.10¼
nat., bgs.	lb.	.09 -	—
Dimethyl anthranilate, cns	lb.	4.35 -	5.10
Chloroacetal, dms., c.l., works	lb.	.45 -	—
l.c.l., works	lb.	.50 -	—
tanks, works	lb.	.40 -	—
Dimethyl ethanolamines, anhyd., dms., c.l., dlvd	lb.	1.225 -	—
l.c.l., dlvd	lb.	1.235 -	—
tanks, dlvd.	lb.	1.20 -	—
70%, dms., c.l., dlvd., 100% basis, contained amines	lb.	.68½-	—
l.c.l., dlvd., 100% basis	lb.	.69½-	—
tanks, dlvd. 100% basis	lb.	.66 -	—
Hydroquinone, dms.	lb.	2.20 -	2.25
Phthalate, dms., c.l., works	lb.	.30½-	—
l.c.l., works	lb.	.31½-	—
tanks, works	lb.	.28 -	—
Sebacate, dms., c.l., works	lb.	1.275 -	—
l.c.l., dlvd	lb.	1.285 -	—
tanks, works	lb.	1.25 -	—
Sulfate, 55-gal. ret. dms., c.l., works	lb	.15 -	—
l.c.l. works	lb	.16 -	—
10-gal. ret. dms., l.c.l., works.	lb.	.16½-	—
Dimethylamine, 25% soln., dms., c.l., frt. equald	lb.	.42 -	—
l.c.l., frt. equald	lb.	.42½-	—
tanks, frt. equald	lb.	.33 -	—
40% soln., dms., c.l., frt. equald	lb.	.39 -	—
l.c.l., frt. equald	lb.	.39½-	—
tanks, frt. equald	lb.	.33 -	—
N,N-Dimethylaniline, dms., c.l., frt. alld	lb.	.29½-	—
l.c.l., frt. alld	lb.	.30½-	—
tanks, frt. alld	lb.	.28¼-	—
N,N-Dimethylformamide dms. works.	lb.	.34 -	.39
tanks, works	lb.	.33 -	—
2,4-Dinitroaniline, dms., 1,000-lb. lots, same basis, frt. equald	lb.	.68 -	—
smaller lots, frt. equald	lb.	.71 -	—
m-Dinitrobenzene, 85°C., dms	lb.	.22 -	—
89°C., dms	lb.	.24 -	—
2,4-Dinitrochlorobenzene, crystallizing at 46½°C., dms., c.l., frt. alld. E	lb.	.15¼-	—
l.c.l., frt. alld E	lb.	.15¾-	—
tanks, frt. alld E	lb.	.15 -	—
2,4-Dinitrochlorobenzene, crystallizing at 48°C., dms., c.l., frt. alld. E	lb.	.20¼-	—
l.c.l., frt. alld. E	lb.	.20¾-	—
tanks, frt. alld. E	lb.	.20 -	—
2,4-Dinitrophenol, bbls	lb.	.37 -	—
2,4-Dinitrotoluene, oily, dms	lb.	.11 -	—
refd., 63°C., dms	lb.	.23 -	—
Dioctyl adipate, dms., c.l., works.	lb.	.42½-	—
l.c.l., works	lb.	.43½-	—
tanks, works	lb.	.40 -	—
Phthalate, dms., c.l., frt. alld	lb.	.31 -	.33
l.c.l., frt. alld	lb.	.32 -	.34
tanks, frt. alld	lb.	.28½-	.30½
Sebacate, dms., c.l., works	lb.	.60½-	—
l.c.l., works	lb.	.61½-	.62½
tanks, works, dlvd	lb.	.58 -	.58½
Di-o-tolylguanidine, dms., ton lots, frt. alld	lb.	.60 -	—
smaller lots, frt. alld	lb.	.61 -	—
1,4-Dioxane, dms., c.l., works	lb.	.26¾-	—
l.c.l., same basis	lb.	.29¼-	—
tanks, same basis	lb.	.27 -	—
Dip oil (see Tar acid oil).			
Dipentaerythritol, bgs., l.c.l., works.	lb.	.35 -	—
Dipentene, dest-dist., dms., c.l., works	gal.	.47 -	—
l.c.l., works	gal.	.52 -	—
ex-whse.	gal.	.62 -	—
steam-dist., dms., c.l., works, South	gal.	.59 -	—
dlvd. N. Y	gal.	.67 -	—
tanks, works, South	gal.	.45 -	—
Diphenyl, bbls., c.l., works	lb.	.15 -	—
l.c.l., works	lb.	.16 -	—
Diphenyl in bags ¼c. lower.			
Oxide, perfume grade, cns	lb.	.56 -	.61
Phthalate, dms., c.l., works	lb.	.51¾-	—
l.c.l., works	lb.	.53¾-	—
Diphenylamine, refd., flake, bgs., c.l., works, frt. equald	lb.	.31 -	—
l.c.l., works, frt. equald	lb.	.33 -	—
fused, tanks, works, frt. equald.	lb.	.29 -	—
tech., fused, tanks, works, frt. equald	lb.	.28 -	—
Diphenylguanidine, bgs., dms., ton lots, frt. alld	lb.	.50 -	—
smaller lots, frt. alld	lb.	.51 -	—
Diphenylhydantoin-sodium USP, dms	lb.	5.00	5.60
Dipropylene glycol, dms., c.l., frt. alld	lb.	.17¼-	—
l.c.l., same basis	lb.	.18¼-	—
tanks, same basis	lb.	.15¼-	—
Monomethyl ether, dms., c.l., dlvd. E	lb.	.20 -	—
l.c.l., same basis	lb.	.21 -	—
tanks, same basis	lb.	.18½-	—
Divi-divi, 45% tannin, bgs., bls., c.l., U.S. ports, exdock	ton	70.00	72.00
Divinylbenzene 20-25% dms., c.l., works, frt. equald	lb.	.20 -	—
l.c.l., same basis	lb.	.21 -	—
tanks, same basis	lb.	.19 -	—
50-60%, dms., c.l., works, 100% basis	lb	1.00 -	—
l.c.l., works, 100% basis	lb.	1.05 -	—

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Highest Purity ***Water Stable***

ETHYL SILICATE

Water White Acid Free

40% — 28%

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10 ROCKEFELLER PLAZA, NEW YORK 20, N. Y.
1721 TRIBUNE TOWER, CHICAGO, ILLINOIS

Dodecylbenzene, dms., c.l., frt. alld	lb.	.14	—
l.c.l., same basis	lb.	.15	—
tanks, same basis	lb.	.12	—
Dyes, coaltar, certified colors for food, drugs and cosmetics, 500-lb. and 1-lb. lots, dlvd:—			
Blue, FD & C, No. 1	lb.	15.65	-17.60
No. 2	lb.	15.65	-17.60
Green, FD & C, No. 1	lb.	15.65	-17.60
No. 2	lb.	19.60	-22.85
No. 3	lb.	21.30	-35.90
Red, FD & C, No. 1, cns	lb.	5.90	- 7.85
No. 2	lb.	3.30	- 4.10
No. 3	lb.	19.60	-22.85
No. 4	lb.	5.55	- 7.50
Violet, FD & C, No. 1, cns	lb.	15.65	-17.60
Yellow, FD & C, No. 1, cns	lb.	9.15	-11.05
No. 5	lb.	3.30	- 4.10
No. 6	lb.	3.30	- 4.10
Dyes, coaltar, certified colors for drugs and cosmetics, 200 lb. and 1 lb. lots, dlvd:—			
Black, D&C, No. 1	lb.	10.50	-10.95
Brown, D&C, No. 1	lb.	15.65	-16.10
Green, D&C, No. 5	lb.	15.65	-16.10
No. 6	lb.	15.65	-16.10
No. 7	lb.	14.35	-14.80

Dyes, coaltar, certified colors for drugs and cosmetics, 1-lb. lots, works, 25-50 lb. lots, dlvd:—			
Orange, D&C, No. 3	lb.	10.50	-10.95
No. 4	lb.	19.60	-20.05
No. 5	lb.	5.95	5.70
No. 17	lb.	10.50	-10.95
No. 18	lb.	23.55	-24.00
No. 19	lb.	15.50	-15.45
No. 21	lb.	3.10	- 3.60
No. 22	lb.	10.50	-10.95
No. 33	lb.	24.20	-24.65
No. 33	lb.	17.00	-17.45
Violet, D&C, No. 2	lb.	15.65	-16.10
Yellow, D&C, No. 7	lb.	10.50	-10.95
No. 8	lb.	10.50	-10.95
No. 10	lb.	13.05	-13.50
No. 11	lb.	13.05	-13.50
Dyes, coaltar, certified colors for drugs and cosmetics, external use, 1-lb. lots, works, 25-50 lb. lots dlvd:—			
Blue, Ext., D&C, No. 1, cns	lb.	15.65	-16.10
Green, Ext., D&C, No. 1, cns	lb.	15.65	-16.10
Red, Ext., D&C, No. 1, cns	lb.	13.05	-13.50
Yellow, Ext., D&C, No. 1, cns	lb.	10.50	-10.95
Dyes, coaltar for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype), contract, dlvd. No.			
20 Chrysoidine Y, dustless	lb.	.89	—
27 Fast light, orange 2G	lb.	1.09	—
31 Phloxine 2G	lb.	.89	—
36 Yellow 2G	lb.	1.00	—
40 Orange R extra, conc	lb.	1.29	—
57 Fuchsine 6B	lb.	1.31	—

Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype), contract, dlvd. No.			
79 Scarlet 2R	lb.	.98	—
151 Orange AD	lb.	.67	—
161 Orange RR	lb.	.80	—
176 Fast red A	lb.	1.18	—
179 Rubine XX, conc	lb.	1.25	—
180 Blue F4B	lb.	1.11	—
185 Brilliant scarlet 3RU, conc.	lb.	1.02	—
202 Chrome blue black R, conc.	lb.	.91	—
561 Brown B	lb.	2.45	—
581 Black EB, 200%	lb.	1.13	—
203 Chrome black I	lb.	.94	—
208 Fast blue SR	lb.	1.10	—
216 Chrome red B	lb.	.92	—
234 Brown Y	lb.	1.08	—
246 Blue black, extra, conc	lb.	1.16	—
275 Milling red 3R, conc	lb.	1.62	—
289 Navy blue 3R, conc	lb.	1.44	—
299 Black F, conc	lb.	1.86	—
304 Neutral black 2B, conc.	lb.	2.21	—
326 Fast scarlet 4BNC	lb.	1.80	—
332 Bismark brown RX, conc., dustless	lb.	1.16	—
365 Brilliant yellow, conc	lb.	3.11	—
382 Scarlet B	lb.	2.20	—
401 Diazo black BHD	lb.	.79	—
406 Blue 2B, extra conc	lb.	1.30	—
419 Red FC	lb.	1.23	—
420 Brown M	lb.	1.19	—
448 Red 4BX, conc	lb.	1.43	—
518 Diamine sky blue FF, extra, conc	lb.	1.65	—
593 Green BY, conc	lb.	.87	—
596 Yellow Brown K, extra	lb.	1.07	—
620 Yellow 2G	lb.	1.11	—
639 Fast Yellow GG	lb.	1.97	—
640 Yellow XX	lb.	1.95	—

Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype), contract, dlvd., No.			
635 Yellow OX	lb.	2.24	—
657 Green Y	lb.	2.31	—
662 Brilliant green G	lb.	3.07	—
667 Milling green 6B, conc	lb.	4.05	—
671 Blue EG	lb.	1.68	—
681 Crystal violet powder	lb.	2.15	—
698 Violet 6BN Powder	lb.	1.91	—
720 Brilliant blue BBG	lb.	2.07	—
729 Blue B, conc	lb.	3.06	—
749 Red BX	lb.	.87	—
800 Chinoline yellow ZSS	lb.	2.67	—
860 Induline base ZM	lb.	1.07	—
860 Induline base Z2R	lb.	1.07	—
814 Yellow NN, conc	lb.	3.11	—
841 Safranine GF, extra, conc.	lb.	3.48	—
865 Nigrosine J	lb.	4.76	—
922 Blue GXX	lb.	1.88	—
978 Black GXCF, conc	lb.	.32	—
1034 Alizarine red SC	lb.	2.35	—
1054 Alizarine blue SAPX	lb.	3.20	—
1078 Alizarine green CG, extra.	lb.	2.99	—
1085 Alizarine blue black B	lb.	2.56	—
1096 Golden orange GFD, single paste	lb.	2.19	—
1099 Dark blue BO, single paste.	lb.	1.93	—
1101 Jade green N supra double paste	lb.	1.10	—
1108 Blue RS, double paste	lb.	3.26	—
1113 Blue BLED, double paste	lb.	2.48	—
1150 Olive R, single paste	lb.	1.21	—
1151 Brown R, single paste	lb.	1.94	—
1171 Indigo synthetic, 20% paste.	lb.	.31	—
1217 Orange RD, double powder.	lb.	3.94	—
p-4 Brown PG	lb.	2.54	—
p-14 Brown EB	lb.	1.83	—
p-24 Gray L	lb.	1.76	—
p-80 Diazo brilliant scarlet ROAD	lb.	3.07	—
p-202 Diazo black VJ, conc	lb.	2.10	—
p-244 Brilliant scarlet BN	lb.	1.44	—
p-313 Naphthol SWF	lb.	2.24	—
Dyes, coaltar, oil soluble, 100 lb. dms., dlvd.			
24 Oil orange Z-7078	lb.	1.06	—
73 Oil scarlet ZBL	lb.	1.44	—
1073 Oil violet ZIRS	lb.	6.81	—
1078 Alizarine cyanine green base Z	lb.	6.13	—
1080 Oil violet special Z	lb.	6.81	—
Oil black ZBC	lb.	4.46	—
Oil black ZBD	lb.	3.03	—
Oil black ZHH	lb.	4.61	—
Oil black ZMM	lb.	6.52	—
Oil blue ZN	lb.	8.02	—
Oil blue ZV	lb.	4.95	—
Oil orange ZMG	lb.	1.32	—
Oil red Z-1700	lb.	1.49	—
Oil yellow ZG, conc	lb.	6.33	—
Dyes, coaltar, spirit soluble, 100 lb. dms., dlvd.			
p-317 Spirit yellow ZR	lb.	4.62	—
p-320 Spirit orange ZR, conc	lb.	5.87	—
Spirit black ZRB	lb.	2.95	—
Spirit brown ZG	lb.	5.50	—
Spirit red ZB, conc	lb.	6.41	—

E

Echinacea root, bls	lb.	1.10	—
Egg albumin (see Albumin).			
Yolk, dried, dom., bbls	lb.	1.07	- 1.09
tanners, bbls	lb.	.06	- .06¼
Elm bark, grinding, bls	lb.	.30	- .32
powd., bbls., bxs	lb.	.45	—
select, bundles	lb.	.75	—
Emetine hydrochloride, USP, bots	oz.	42.50	-44.00
Endrin, tech., dms., dlvd., 100% basis	lb.	3.75	—
Ephedrine, syn., USP, anhyd., bots., 100-oz. lots	oz.	.93	- 1.00
hydrous bots., 100-oz. lots	oz.	.92	—
Hydrochloride, tins, 100-oz. lots.	oz.	.75	—
Sulfate, cryst., tins, 100-oz. lots.	oz.	.72	—
powd. tins 100-oz. lots	oz.	.73	—
Epichlorohydrin, dms., c.l., dlvd	lb.	.35	—
l.c.l., dlvd	lb.	.36	—
tanks, dlvd	lb.	.33	—
Epinephrine, syn., USP, bots., 100-gram lots	gram	.60	—
Epsom salt (see Magnesium sulfate).			
Ergot, NF, dms., tin-lined	lb.	2.00	—
Eserine salicylate, bots	oz.	84.00	—
Sulfate, bots	oz.	84.00	—
Ether (see specific product)			
Ethyl acetate, nat., ferment., 85-88%, dms., c.l., frt. alld	lb.	.14	—
l.c.l., frt. alld	lb.	.15	—
tanks, frt. alld	lb.	.11½	—
95-98%, dms., c.l., frt. alld.	lb.	.14¼	—
l.c.l., frt. alld	lb.	.15¼	—
tanks, frt. alld	lb.	.11¾	—
99%, dms., c.l., frt. alld	lb.	.14½	—
l.c.l., frt. alld	lb.	.15½	—
tanks, frt. alld	lb.	.12	—
syn., 85-88%, dms., c.l., dlvd.	lb.	.14	—
l.c.l., dlvd	lb.	.15	—
tanks, dlvd	lb.	.11½	—
95-98%, dms., c.l., dlvd	lb.	.14¼	—
l.c.l., dlvd	lb.	.15¼	—
tanks, dlvd	lb.	.11¾	—
99%, dms., c.l., dlvd	lb.	.14½	—
l.c.l., dlvd	lb.	.15½	—
tanks, dlvd	lb.	.12	—
indust., dms., c.l., dlvd	lb.	.12½	—
l.c.l., dlvd. E	lb.	.13½	—
tanks, dlvd E	lb.	.10	—
Acetoacetate, dms., c.l., dlvd	lb.	.58½	—
l.c.l., dlvd	lb.	.59½	—
tanks, dlvd	lb.	.56	—
Acrylate, dms., c.l., t.l., dlvd.	lb.	.36	—
t.l., dlvd	lb.	.37	—
tanks, dlvd	lb.	.34	—
Aminobenzoate, USP (see Benzocaine).			
Amyl ketone, dms., c.l., dlvd	lb.	.20	—
l.c.l., same basis	lb.	.21	—
tanks, same basis	lb.	.17½	—
Benzoate, bots	lb.	.74	- .90
Bromide, tech., 98%, dms., c.l., frt. alld. E	lb.	.42	- .44
l.c.l., frt. alld. E	lb.	.44	- .46
Butyl ketone, dms., c.l., works.	lb.	.36	—
l.c.l., works	lb.	.36¾	—
tanks, works	lb.	.34	—
Butyrate, works	lb.	.85	- .90
Carbamate (see Urethane).			
Cellulose, vis. 7 cps., bgs., 5,000-lb. lots or more, works	lb.	.70	—
smaller lots, works	lb.	.72	- .80
vis. 10, 20, 50, 100, 150 cps., bgs., 2,000-lb. lots or more, works	lb.	.65	- .70
smaller lots, works	lb.	.67	- .81
Chloride, tech., cyl., works		.20	- .22
dms., works	lb.	.18	- .20
tanks, works	lb.	.10	—
Cinnamate, cns	lb.	3.35	- 3.45
Ether, absolute, ACS, dms	lb.	.27	—
anesthesia, USP, hospitals, 1-lb. cns	lb.	1.01	—
½-lb. cns	lb.	1.11	—
¼-lb. cns	lb.	1.21	—
Gallate, dms., 100 to 2,000-lb. lots	lb.	3.90	- 4.40

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SPECIFICATIONS:

Specific gravity of material at 20°C. compared to that of water at 4°C.	1.450 to 1.465
Distillation range, 5 to 95% within	3°C.
Distillation range to include	38.4°C.
Acidity	Neutral
Color	Water white and clear

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Ethyl iodine, cbys., works.....lb. 3.30 • —
Methacrylate, dms., c.l., and less than truckload, works, frt. equald. lb. .51½- .52
Morphine hydrochloride, USP, bots. oz.11.85 • —
Nitrite (see Nitrous ether).
Oenanthate, dms. .....lb. 1.00 - 1.50
Oleate, dms., l.c.l., works.....lb. No prices.
Oxalate (see Diethyl oxalate).
Silicate dist. (see Tetraethyl orthosilicate).
40% available SiO_2, dms., c.l., dlvd..lb. .49½- —
l.c.l., dlvd.....lb. .50½- —
tanks, dlvd.....lb. .47 • —
Ethylethanolamines, mixed, dms., c.l., dlvd. E..lb. .43½- —
l.c.l., dlvd E.....lb. .44½- —
tanks, dlvd. E.....lb. .41½- —
N-Ethyl-a-naphthylamine, dms., works, lb. 1.02 • —
N-Ethyl-o-toluidide, bbls.....lb. .88 • —
Ethylamine (see Mono, Di- or Tri-)
N-Ethylaniline, dms., c.l., frt. alld, lb. .51 • —
l.c.l., frt. alld.....lb. .52 • —
tanks, frt alld.....lb. .50 • —
Ethylbenzene, 99%, dms., c.l., or t.l., frt. equald. lb. .17 • —
l.t.l., same basis.....lb. .18 • —
tanks, same basis.....lb. .15 • —
Ethylene dichloride, dms. c.l., dlvd, lb. .11½- —
l.c.l., same basis.....lb. .12½- —
tanks, same basis.....lb. .09 • —
Ethylene dichloride prices W. of Rockies, 1c. per lb. higher.
Glycol, indust., dms., c.l., dlvd, E lb. .16 • —
l.c.l., same basis.....lb. .17 • —
tanks, same basis.....lb. .13½- —
Monobutyl ether, dms., c.l., dlvd. E lb. .22 • —
l.c.l., dlvd E.....lb. .23 • —
tanks, dlvd. E.....lb. .19½- —
Monoethyl ether, dms., c.l., dlvd. E..lb. .21 • —
l.c.l., dlvd. E.....lb. .22 • —
tanks, dlvd E.....lb. .18½- —
Acetate, dms., c.l., dlvd. E lb. .19½- —
l.c.l., dlvd. E.....lb. .20½- —
tanks, dlvd. E.....lb. .17 • —
Monomethyl ether, dms., c.l., dlvd. E..lb. .21 • —
l.c.l., dlvd. E.....lb. .22 • —
tanks, dlvd. E.....lb. .18½- —
Acetate, dms., c.l., dlvd. E lb. .29 • —
l.c.l., dlvd. E.....lb. .29¾- —
tanks, dlvd. E.....lb. .27 • —
Monostearate, triple pressed, dms. lb. .34 • —
Oxide, dms., c.l., dlvd. E.....lb. .21½- —
l.c.l., dlvd. E.....lb. .24½- —
tanks, dlvd. E.....lb. .15½- —
Trichloride (see Trichloroethane).
Ethylenediamine, 85-88%, dms., c.l., dlvd. E, 100% basis..lb. .46 • —
l.c.l., dlvd E., 100% basis..lb. .47 • —
tanks, dlvd. E., 100% basis..lb. .44 • —
Ethylvanillin, cns., 25-lb. lots....lb. 6.20 • 6.25
Eucalyptol, USP, cns., dms.....lb. 1.25 • 1.50
Eugenol, USP, bots.....lb. 2.25 • 2.60
Euphorbia herb, bls.....lb. .15 • .17

F

Feldspar, 140-200 mesh, bulk, c.l., works ton.18.50 • —
Feldspar in bags $3 per ton higher.
Fennel seed, Argentine, bgs.....lb. .17½- —
Czech, medium, bgs.....lb. .11½- —
Indian, light, bgs.....lb. .12 • .13
Roumanian, bgs.....lb. .11 • —
Fenugreek seed, Indian, bgs.....lb. .08½- .09
Moroccan, bgs.....lb. .08½- .09
Ferric acetate, liquor, 28°, bbls., c.l., works lb. .09 • —
l.c.l., works.....lb. .09¾- —
soln., USP IX, cbys.....lb. .16 • —
dims.....lb. .17 • —
Cacaodylate NF, bots.....lb.13.00 -14.00
Chloride, anhyd., tech., dms., c.l., works..100 lbs. 7.00 • —
l.c.l., works.....100 lbs. 7.85 • —
indust., cryst., bbls., c.l., works, 100 lbs. 5.25 • 6.75
l.c.l., works.....100 lbs. 5.75 • 7.25
42° Be, photo grade, cbys., c.l., works 100 lbs. 7.25 • 8.25
sewage grade, tanks, frt. equald, 100% basis, 100 lbs. 3.50 • —
USP, cryst., dms., works....lb. .07½- .09
Citrate, gran., dms. .....lb. .86 • —
Hypophosphite, NF, dms.....lb. 3.45 • —
Naphthenate, liq., 6% Fe, dms., frt. alld..lb. .25¾- —
Oxalate, gran.. dms.....lb. .85 • .87
Oxides (see oxides under Black, Brown, Red, and Yellow.)
Phosphate, NF, soluble, gran., pearls, cs lb. .64 • .65
Pyrophosphate, NF VII, soluble, powd., gran., pearls, dms., 10,000 lb. lots..lb. .40½- —
Resinate, 6¾% Fe, dms., frt. alld, lb. .29½- —
Stearate, dms., c.l., frt. alld..lb. .37 • —
l.c.l., frt. alld.....lb. .38 • .42
Sulfate, partially hydrated, bgs., c.l., works..ton.31.75 -33.75
l.c.l., works.....ton.34.75 -40.75
lb. .37 • —
Ferric-ammonium citrate, brown, pearls, NF, gran., dms..lb. .60 • .63
green, pearls, USP XII, gran., dms..lb. .60 • .63
Oxalate, fine gran., dms....lb. .25½- .28½
Ferric-potassium oxalate, fine gran., dms..lb. .30½- .33½
Ferric-sodium oxalate, fine gran., dms..lb. .25½- .28½
Ferrous gluconate, NF, dms...lb. .94 • —
Sulfate, gran., bgs., c.l., works, ton.34.50 • —
l.c.l., dlvd. Metropolitan area..100 lbs. 3.35 • 4.25
bbls., c.l., works.....ton.40.00 • —
bulk, c.l., works.....ton.27.00 • —
USP, cryst., bbls., dms.....lb. .09½- .10
Fir, balsam, Canada, cns.....gal.32.00 • —
Oregon, bbls. .....gal. 4.00 • —
Fishliver oil (see Oil fishliver).
Fishmeal, dom., menhaden, 60% protein, grd., bgs., Chesapeake Bay area..ton.135.00 • —
scrap, same basis..ton.130.00 • —
Fleaseed (see Psyllium seed).
Formaldehyde, USP, 37% (inhibited), methanol, Zone 1, dms., c.l., dlvd..lb. .07 • —
l.c.l., works.....lb. .0745- .075
tanks, dlvd. .....lb. .042 • —
Zone 2, 12-15% methanol, dms., c.l., dlvd..lb. .0735- —
tanks, dlvd.....lb. .045 • —
Methanol-free (uninhibited), Zone 1, tanks, dlvd .....lb. .0385- —
Zone 2, tanks, dlvd.....lb. .042 • —
Fringetree bark, bls.....lb. .60 • .61

Fullers' earth, bgs., c.l., Ill. mines, ton.19.00 • —
powd., insecticide grade, dried, bgs., c.l., Ga. or Fla. mines..ton.17.50 • —
calcined, bgs., c.l., same basis..ton.20.00 -21.75
oil-bleaching grade, 100-mesh, bgs., c.l., same basis..ton.16.30 -17.00
200-mesh, bgs., c.l., same basis..ton.17.50 -18.00
spent, bgs., c.l., shipt. point..ton. 4.50 • 5.00
Furfural, dms., c.l., works .....lb. .13 • —
l.c.l., works.....lb. .14 • —
tanks, dlvd. E.....lb. .12 • —
dlvd. W.....lb. .13 • —
Fusel oil, refd., dms., c.l., dlvd..lb. .18 • —
l.c.l., dlvd.....lb. .19 • —
tanks, dlvd.....lb. .15½- —
Fustic extract, cryst., No. 1, bbls., l.c.l..lb. .47½- —
No. 2, bbls., l.c.l.....lb. .45½- —
No. 3, bbls., l.c.l.....lb. .43½- —
liq., No. 1, bbls., l.c.l.....lb. .22½- —
No. 2, bbls., l.c.l.....lb. .21½- —
No. 3, bbls., l.c.l.....lb. .19 • —
solid, No. 1, bxs., l.c.l.....lb. .45 • —

G

G salt, bbls., frt. alld, 100% basis.lb. .73 • —
Gammapicoline (see g-Picoline)
Gelatin, edible, pure (pork skin), 75 Bloom test, bbls., c.l lb. .53 • —
150 Bloom test, bbl., c.l lb. .64 • —
200 Bloom test, bbls., c.l lb. .70 • —
225 Bloom test, bbls., c.l lb. .73 • —
275 Bloom test, bbl., c.l lb. .81 • —
Gelsemium root, bls .....lb. .23 - .24
Gentian root, bls.....lb. .17 • .20
grd., bbls., bxs.....lb. .22 • .23
powd. bbls., bxs.....lb. .23 • .24
Geraniol, extra, cns., dms. .....lb. 3.95 • —
standard, cns., dms. .....lb. 3.75 • —
Geranyl acetate, cns. .....lb. 3.65 • —
Ginger oleoresin, NF, from African root, bots lb. 4.00 - 7.75
from Jamaican root, bots lb. 6.00 -10.25
Root, African, bls .....lb. .34 • —
Cochin, bgs. .....lb. .31 • .32
Jamaican, No. 2, bgs.....lb. .86 • —
No. 3, bgs .....lb. .80 • —
Nigerian, split, bgs.....lb. .30 • —
Glauber's salt, anhyd (see Sodium sulfate).
Glue, bone, extracted, dry bone, 86 jellygrams, bgs., c.l., dlvd lb. .15 • —
104 jellygrams, same basis lb. .17 • —
131 jellygrams, same basis lb. .18 • —
164 jellygrams, same basis lb. .20½- —
191 jellygrams, same basis lb. .21 • —
222 jellygrams, same basis lb. .22 • —
12 green, 40 jellygrams, bgs., c.l., dlvd lb. .13½- —
65 jellygrams, same basis lb. .13¾- —
86 jellygrams, same basis lb. .14 • —
115 jellygrams, same basis lb. .14½- —
135 jellygrams, same basis lb. .15 • —
164 jellygrams same basis lb. .16 • —
180 jellygrams, same basis lb. .17 • —
200 jellygrams, same basis lb. .18½- —
Bone glue, l.c.l. prices 1c. higher.
Glue hide, 70-94 jellygrams, bgs., c.l., dlvd lb. .15 • —
95-121, bgs., c.l., dlvd .... lb. .16 • —
122-149, bgs., c.l., dlvd..... lb. .18 • —
150-177, bgs., c.l., dlvd..... lb. .20 • —
178-206, bgs., c.l., dlvd..... lb. .22 • —
207-236, bgs., c.l., dlvd..... lb. .24 • —
237-266, bgs., c.l., dlvd..... lb. .26 • —
267-298, bgs., c.l., dlvd..... lb. .28 • —
299-330 bgs., c.l., dlvd..... lb. .30 • —
331-362 bgs., c.l., dlvd ..... lb. .32 • —
363-394, bgs., c.l., dlvd..... lb. .34 • —
395-427, bgs., c.l., dlvd..... lb. .36 • —
428-460, bgs., c.l., dlvd..... lb. .38 • —
461-494, bgs., c.l., dlvd ..... lb. .40 • —
495-529, bgs., c.l., dlvd ..... lb. .41 • —
Hide glue l.c.l. prices 1c. higher.
Glycerine, nat., crude, saponification, 88%, to refineries, tanks . lb. .1760- —
soaplye, 80%, tanks ..... lb. .16 • —
refd., CP, USP, 99%, dms., c.l., dlvd lb. .29½- —
l.c.l., dlvd ..... lb. .30 • —
tanks, dlvd ..... lb. .28 • —
96%, dms., c.l., dlvd.... lb. .28½- —
l.c.l., dlvd ..... lb. .29 • —
tanks, dlvd ..... lb. .27 • —
high gravity, dms., c.l., dlvd. lb. .29¼- —
l.c.l., dlvd..... lb. .29¾- —
tanks, dlvd..... lb. .27¾- —

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Parahydroxybenzoates • Pentaerythritols • Propyl Gallate • Resorcinol • Salicylates • Salicylic Acid • Sodium Benzoate • Sodium Formate

Glycerine, nat., refd., high gravity, lb. .28½- —
l.c.l., dlvd. lb. .29 - —
syn., dms., c.l., dlvd lb. 29½- —
l.c.l., dlvd. lb. .30 - —
tanks, dlvd lb. .28 - —
Glycine (see Acid aminoacetic).
Glycerol (see Gylcerine).
Glyoxal, 30%, dms., c.l., works lb. .18½- —
l.c.l., works lb. .19¼- —
Golden seal root, NF, tested, bls. lb. 2.25 - 2.50
powd., bxs lb. 2.75 - 3.25
Graphite, amorph., powd., bgs., fib. dms., ex whse lb. .06 - .09¼
crystalline, 88-90%, powd., bgs., fib dms., ex whse lb. .19 - .21½
90-92%, powd., bgs., fib. dms., ex whse lb. .21 - .24½
95-97%, powd., bgs., fib. dms., ex whse lb. .29 - .31½
flake, No. 1, 90-95%, bgs., fib. dms., ex whse lb. .29 - .31
No. 2, 90-95%, bgs., fib. dms., ex whse lb. .29 - .31
Grease, white, choice, all hog tanks, dlvd lb. .07⅝- .07¾
yellow, tanks, dlvd. lb. .06⅝- —
Green, brilliant, thioflavin, toner, molybdated, PMA, kgs., works lb. 5.10 - —
tungstated, PTMA, kgs., works. lb. 6.40 - —
Green, chrome, CP, dark, light, medium, blue content 1 to 15%, bbls., N. of Tenn. and N. C., E. of Miss., including St. Paul, Minn., Davenport, Rock Isand, St. Louis lb. .40 - —
16-30%, bbls., same basis lb. .40 - —
31-45%, bbls., same basis lb. .41 - —
45-49%, bbls., same basis lb. .44 - —
reduced color, 25%, bbls., same basis lb. .19 - —

Chrome green prices are ½c. higher, dlvd. at the following points, except as noted:—Ala., Fla., Ga., La. (Shreveport 1½c.), Miss. N. C., S. C., Tenn., Texas (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.); Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1c. higher dlvd. Pac. coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.

Chromium oxide, hydrated, bbls., fib. dms., c.l., frt. alld lb. 1.00 - 1.10
pure, bgs., c.l., frt. alld lb. .42 - —
l.c.l. same basis lb. .43 - —
Dyes (see Dyes, coaltar).
Malachite, straight, PTMA, bbls., works lb. 4.60 - —
Paris (see Paris green).
Phthalocyanine toner, bbls., works. lb. 3.95 - —
resinated, bbls lb. 3.50 - —
water dispersable, bbls. lb. 1.71 - —
Pigment B, kegs lb. 1.35 - —
paste, kegs lb. .38 - —
Grindelia robusta herb, bls. lb. .36 - .40
Guaiacol, NF, cryst., dms., tins. lb. 2.10 - 2.18
liq., cbys., dms lb. 2.30 - 2.40
Carbonate, NF VII, dms lb. 3.40 - 3.45
Gum, aloe (see Aloe).
Arabic, amber, sorts, bgs lb. .22 - .23
powd., USP, bbls lb. .37 - .38
Asafetida (see A).
Asphaltum (see A).
Benzoin, Sumatra, cs lb. .38 - .42
Camphor (see C).
Cellulose, high vis., bgs., 23,000-lb. lots or more, works, frt. alld lb. .55 - —
smaller lots, same basis lb. .57 - —
Copal, Congo, No. 1, bgs lb. .23 - —
No. 2, bgs lb. .19 - .21
No. 3, bgs lb. .15½- .17
Manila C, bgs. lb. .37 - .40
CBB, bgs. lb. No stocks.
DBB, bgs. lb. .27¼- .31
DK, bgs lb. No stocks.
dust, bgs lb. .14 Nom.
MA, soft, bgs. lb. .19½- .22
WS, bgs. lb. No stocks.
Philippine, pale, chips, bgs. lb. .21 - .24
nubs, bgs lb. .31 - .35
seeds, bgs lb. .20 - .22
sorts, bgs lb. .20½- —
Pontianak, chips, bgs. lb. .26 - —
nubs, bgs lb. .39 - .40
Dammar, Batavia, A/E, cs lb. No stocks.
dust, bgs lb. .16½- .17½
E, bgs lb. .20 - .22
East India, batu, bold, bgs. lb. .13½- .15½
nubs and chips, bgs. lb. .08 - .09
black, bold, bgs lb. .14 - .16
unscraped, bgs lb. .12½- .14
nubs and chips, bgs. lb. .11 - .13
pale, chips, bgs. lb. .14½- .15½
nubs, bgs lb. .17 - .19
Siam, cs lb. .39 - —
Gum, dammar, Singapore, No. 1, bgs. lb. .45¼- .48
No. 2, bgs lb. .32 - .34
No. 3, bgs lb. No stocks.
dust, bgs. lb. .16¾- .17
seeds, bgs lb. .20 - .22
Ester, gum-rosin type, dms., c.l., dlvd. Ill., Md., Ky., Mich., Mid-Atl. States, N. E. States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W. Va lb. .14½- .16
wood-rosin type, dms., c.l., same basis lb. .15 - .16
Guar, food grade, bgs., c.l. lb. .50 - —
tech. grade, bgs., c.l. lb. .40 - —
Karaya, No. 1, NF, powd., bbls. lb. .55 - —
No. 2, powd., bbls. lb. .45 - —
No. 3, powd., bbls lb. .40 - —
Locust bean, powd., bgs lb. .38 - .41
Myrrh, cs. lb. .55 - —
Opium (see Opium).
Olibanum siftings, cs. lb. .15 - .20
tears, cs. lb. .22 - .30
Rosin (see Naval Stores, Protective Coatings Market).
Sterculia (see Gum Karaya).
Tragacanth, No. 1, ribbons, cs. lb. 3.50 - 4.25
No. 2, cs lb. 3.00 - 3.50
No. 3, cs lb. 2.50 - 3.00
powd., USP, bbls lb. 2.25 - 2.30
Gypsum, plaster of paris, 100-lb paper, bgs., trucks, dlvd N. Y. C ton 20.30 - —
Terra alba, dom., paper bgs., same basis ton 20.00 - —
works, N. Y. C ton 17.00 - —
imp., English, 100-lb. paper bgs., ex dock, N. Y. C. ton 55.00 - —
ex warehouse ton 60.00 -62.00

H

Hawthorn berries, bgs lb. .24 - .28
Heliotropin, 100-lb. lots, dms lb. 3.00 - 3.25
Hellebore root, dom., green, bls lb. 70 - .75
Helonias root, bls lb. 1.75 - 2.00
Hematine extract, cryst., No. 1, bbls., l.c.l lb. .47 - —
No. 2, bbls., l.c.l lb. .43 - —
No. 3, bbls., l.c.l lb. .41 - —
No. 4, bbls., l.c.l lb. .39 - —
No 5, bbls., l.c.l lb. .37 - —
paste, No. 1, bbls., l.c.l lb. .20½- —
Henbane leaves, bls lb. .35 - .40
Heptane, indust., tanks, Bayonne, N. J gal. .19 - —
Baytown, Tex gal. .14¾- —
Borger, Tex gal. .14¾- —
Hesperidin, purif., 25 lb. lots, f.o.b., works lb. 8.95 - —
Methylchalcone, bots., 50-lb. lots, works lb. 22.50 - —
5-lb. lots, works lb. 23.00 - —
1-lb. lots, works lb. 23.50 - —
Hexachlorophene, dms lb. 1.98 - —
Hexalin (see Cyclohexanol).
Hexamethylenetetramine, tech., bgs., 20,000-lb. lots or more, Perth Amboy or N.Y.C. lb. .222 - —
1,000-19,999-lb. lots, same basis lb. .232 - —
smaller lots, same basis lb. .242 - —
fib. dms., 1,000-lb. lots or more, same basis lb. .239 - —
smaller lots, same basis lb. .242 - —
USP, dms., 500-lb. lots or more, smaller lots, same basis lb. .41½- —
Hexane, indust., tanks, Bayonne, N. J. gal. .19 - —
Baytown, Tex gal. .15½- —
Borger, Tex gal. .15½- —
1-Hexanol, dms., c.l., works lb. .35 - —
l.c.l., works lb. .35¾- —
tanks, works lb. .33 - —
Hexyl cinnamic aldehyde, dms. lb. 4.00 - 7.50
Salicylate, dms. lb. 1.75 - —
Hexylene glycol, dms., c.l., dlvd. lb. .17 - —
l.c.l., dlvd lb. .18 - —
tanks, dlvd lb. .14½- —
n-Hexyl methacrylate, dms., less than truckload, works lb. .71 - —
Hexylresorcinol, USP, dms., 50-lb. lots or more, dlvd lb. 14.00 - —
smaller lots, dlvd lb. 44.50 - —
Histamine diphosphate, USP, bots. kilo. 400.00 - —
l-Histidine hydrochloride, NF, fib. dms., 50-kilo lots, works. kilo. 80.00 -85.00
1-5 kilo lots, works kilo 90.00 -95.00
Homatropine hydrobromide, USP. bots. oz. 8.50 - —
Methylbromide, USP, bots oz. 5.65 - —
Hoofmeal, 17-18% ammonia, bulk, c.l., Chicago unit-ton. 6.25 - —
Horehound herb, bls lb. 16 - .19
Hydrastine, bots oz. 29.50 -31.00
Hydrochloride, NF, bots oz. 29.50 -31.00
Hydrastis (see Goldenseal).
Hydrazine, free base, ref. dms., works lb. No stocks.
Hydrate, 85%, ref. dms., works lb. 1.35 - 1.55
100%, ref. dms., works lb. 1.60 - 1.90
Hydrocortisone acetate, bulk, bots., dms gram. 4.50 - —
Alcohol, bulk, bots., dms gram. 4.50 - —
Hydrofuramide, dms., fib. ctns., works lb. .30 - .40
Hydrogen chloride, anhyd., 50-lb. cyls., c.l., works lb. .45 - —
l.c.l., works lb. .55 - .60
Fluoride anhyd., cyls., dlvd. E lb. .30½- .32½
dlvd. W lb. .39 - —
tanks, works lb. .21 - —
Peroxide, USP, bbls., dlvd lb. .03¾- .05
35%, dms., c.l., dlvd lb. .202 - —
l.c.l., dlvd lb. .211 - —
tanks, dlvd lb. .1800- —
Hydroquinone, pnoto grade, bbls., dms lb. .98 - 1.00
tech., dms., c.l., dlvd lb. .82½- —
l.c.l., dlvd lb. .84½- —
Hydroxycitronellal, cns lb. 6.00 - 7.45
Hyoscine salts (see Scopolamine).
Hyoscyamine, bots oz. 13.50 - —
Hydrobromide, bots oz. 6.00 - 7.00
Sulfate, bots oz. 7.00 - 7.50
Hypernic extract, cryst., No. 2, bbls., l.c.l lb. .52 - —
liq., No. 1, bbls., l.c.l lb. .35 - —
No. 2, bbls., l.c.l lb. .27 - —

I

Ichthammol, NF, jars lb. .75 - 2.87
Indian red (see Red, Indian).
Indigo (see Dyes, coaltar, 1171 Indigo synthetic).
Indole, CP, bots lb. 16.50 -21.00
Inositol, bots., dlvd lb. 5.00 - —
dms., dlvd lb. 4.50 - 4.75
Insect flowers (see Pyrethrum).
Iodine, crude, kgs lb. 1.42 - —
resub., USP, dms., jars lb. 2.30 - 2.35
Iodochlorohydroxyquinolin, USP, dms lb. 5.90 - —
Iodoform, NF, dms., kgs lb. 4.90 - 5.00
a-Ionone, cns lb. 5.25 - 5.40
b-Ionone, cns lb. 5.40 - 5.70
Ipecac root, bgs., whole lb. 7.50 - 8.00
powd., bbls., bxs lb. 8.50 - 9.00
Irish moss, bleached, prime, bls lb. .28 - .34
Iron compounds (see Ferric or Ferrous). Oxides (see under Black, Brown, Red, and Yellow).

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carboxylic anhydrides or acid chlorides	→	hydroquinone esters
alkylating agents	alkaline conditions →	hydroquinone mono-or di-ethers
olefins	catalyst →	mono or dialkylated hydroquinones
phthalic anhydride	→	quinizarin
sodium chlorate	→	benzoquinone
hydrogen	→	quinitol
aliphatic amines	→	N-alkyl p-aminophenols and N, N' bis alkyl p-phenylene-diamines
Mannich condensations	→	bis-dialkyl-aminomethyl-hydroquinones or 2,5-dimethyl hydroquinone
benzoquinone	→	quinhydrone
sulfuric acid	→	hydroquinone-mono- or di-sulfonic acid
halogens	→	halogenated hydroquinones
ethyl acetoacetate	→	4-methyl-6-hydroxy-coumarin
Kolbe carboxylation	→	gentisic acid

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Eastman CHEMICAL PRODUCTS, INC.

KINGSPORT, TENNESSEE • subsidiary of EASTMAN KODAK COMPANY

SALES OFFICES: Eastman Chemical Products, Inc., Kingsport, Tennessee; New York—260 Madison Ave.; Framingham, Mass.—65 Concord St.; Cincinnati—Carew Tower; Cleveland—Terminal Tower Bldg.; Chicago—360 N. Michigan Ave.; Houston—412 Main St.; St. Louis—Continental Bldg. **West Coast: Wilson Meyer Co.,** San Francisco—333 Montgomery St.; Los Angeles—4800 District Blvd.; Portland—520 S. W. Sixth Ave.; Salt Lake City—73 S. Main St.; Seattle—821 Second Ave.

Isoborneol, cns	lb.	1.25	1.70
Isobornyl acetate, cns	lb.	.46	.70
Formate, dms	lb.	.80	—
Propionate, dms	lb.	1.15	1.45
Isobutyl acetate, perfume grade, cns	lb.	.75	1.00
solvent grade, dms., c.l., dlvd. E. of Rockies	lb.	.14¼	—
l.c.l., same basis	lb.	.15¼	—
tanks, same basis	lb.	.11¾	—
Isobutyraldehyde, CP, dms., c.l., dlvd.	lb.	.27½	—
l.c.l., dlvd	lb.	.28½	—
tech., dms., c.l., dlvd	lb.	.21½	—
l.c.l., dlvd	lb.	.22½	—
tanks, dlvd	lb.	.19½	—
Isoeugenol, cns	lb.	3.60	4.40
Isoniazid, powd., bulk, 25-kilo lots or more	kilo.	23.00	25.50
smaller lots	kilo.	24.00	26.00
Isopentane, coml. grade, tanks, f.o.b. Tex, refy	gal.	.15½	—
Isonicotinic acid hydrazide (see Isoniazid).			
Isophorone, dms., c.l., works	lb.	.24½	—
l.c.l., works	lb.	.25¼	—
tanks, works	lb.	.22½	—
Isopropanol (see Alcohol, isopropyl).			
Isopropyl acetate, dms., c.l., dlvd.	lb.	.13	—
l.c.l., same basis	lb.	.14	—
tanks, same basis	lb.	.10½	—
Alcohol (see Alcohol, isopropyl).			
Benzene (see Cumene).			
Ether, dms., c.l., dlvd	lb.	.07	—
l.c.l., dlvd	lb.	.08	—
tanks, dlvd	lb.	.05	—
Isopropyl-N-(3-chlorophenyl) carbamate, (CIPC), 70% in xylol, dms., c.l., t.l., works	lb.	.70	—
l.c.l., works	lb.	.714	.814
Isopropylamine (see Mono, Di, or Tri-).			
Isopropyl-N-phenyl carbamate, 450-lb. fib dms, c.l., t.l., works.	lb.	.75	—
l.c.l., works	lb.	.80	.90
Isoquinoline, dms., works	lb.	.65	1.25

J

Jalap root, NF, bls	lb.	.45	.55
powd., bbls., bxs	lb.	.55	.65
Juniper berries, bgs	lb.	.18	.20
Tar, NF, dms	lb.	.42	.60

K

Kaolin (see also Clay China).			
NF, powd., fib, dms	lb.	.10	.12
colloidal, fib, dms	lb.	.15½	.17½
Kola nuts, bgs	lb.	.15	—

L

Lactose, edible, fib, dms., 30,000-lb. lots, works	lb.	.15	.15½
2,000-lb. lots, works	lb.	.15¾	.16½
200-1,800-lb. lots, works	lb.	.16¾	.17
Edible lactose in bgs. ½-1c. lower.			
fermentation grade, bgs., c.l., works	lb.	.08½	—
USP, fib, dms., 30,000-lb. lots, works	lb.	.21½	—
2,000-lb. lots, works	lb.	.22¼	—
200-1,800-lb. lots, works	lb.	.22¾	—
USP lactose in bgs. 1c. lower.			
Lanolin, cosmetic, dms., works	lb.	.26	.28
USP, anhyd., dms., works	lb.	.24	.26
hydrous, dms., works	lb.	.23	.25
Lard, cash, dms., Chicago	lb.	.1102	—
Larkspur seed, bgs	lb.	.20	.23
n-Lauryl methacrylate, dms., c.l. or t.l., works	lb.	.65½	—
Lavender flowers, medium, bls	lb.	.75	.80
ord., bls	lb.	.25	.40
select., bls	lb.	.90	—
Lead acetate, white, cryst., bbls	lb.	.23½	—
gran., bbls	lb.	.24½	—
powd., bbls	lb.	.24½	—
NF, cryst., gran., powd	lb.	.32½	—
Arsenate, acid powder, dealers, 3-lb. bgs. or larger, c.l., frt alld on 96 lbs. or more	lb.	.27½	—
l.c.l., frt. alld	lb.	.28½	—
1-lb. bgs., c.l	lb.	.41½	—
l.c.l.	lb.	.42½	—
Blue, basic sulfate, bbls., c.l., shipt. point, frt. alld	lb.	.17¼	—
l.c.l., same basis	lb.	.18¼	—
Carbonate (see Lead, white, basic carbonate).			
Chloride, dms	lb.	.45	—
Iodide, NF, V jars	lb.	3.82	—
Linoleate fused, 26%% Pb, dms.	lb.	.33	—
Metal pigs, prime, N. Y.	lb.	.16	—
St. Louis	lb.	.1580	—
Metallic paste, dms., 20,000-40,000-lots, works	lb.	.33¾	—
10,000-20,000-lb. lots, same basis	lb.	.34¾	—
200-2,000-lb. lots, same basis.	lb.	.35¾	—
Prices ex whse. Jersey City, N. J., 4½c. per lb. higher.			
Monosilicate, bgs., c.l., works, frt. equald	lb.	.20	—
l.c.l., same basis	lb.	.2075	—
Naphthenate, liq., 16% Pb, dms., dlvd	lb.	.17	—
24% Pb., dms., dlvd	lb.	.21	—
solid, 37% Pb., dms., dlvd	lb.	.27½	—
Nitrate, bbls	lb.	.23¾	—
Orthosilicate-silica gel, 50-60% PbO, dms., works	lb.	.29¾	.34¼
Peroxide, tech., powd., bbls	lb.	.38¾	.40¼
Phthalate, dibasic, dms., works	lb.	.41	—
Red, 95% Pb_3O_4, or less, bbls., c.l., works, frt. alld	lb.	.19	—
l.c.l., same basis	lb.	.20	—
97% Pb_3O_4, bbls., c.l., same basis.	lb.	.192	—
l.c.l., same basis	lb.	.202	—
98% Pb_3O_4, bbls., c.l., same basis.	lb.	.1935	—
l.c.l., same basis	lb.	.2035	—
Resinate, precip., 23% Pb, dms., dlvd	lb.	.32½	—
Salicylate, normal, dms., works.	lb.	.46	—
Silicate (see Lead, white, basic, silicate)			
Sulfate (see Lead, blue, basic sulfate, Lead white, basic sulfate).			
Tallate, liq., 16% Pb, dms	lb.	.15	—
24% Pb., dms	lb.	.18½	—
solid, 30%	lb.	.23¼	—
White, basic carbonate, bgs., c.l., shipt. point, frt. alld	lb.	.19	—
l.c.l., same basis	lb.	.20	—
silicate, bgs., c.l., shipt. point, frt. alld	lb.	.17¼	—
l.c.l., same basis	lb.	.18¼	—
sulfate, bgs., c.l., shipt. point, frt. alld	lb.	.17¼	—
l.c.l., same basis	lb.	.18¼	—
Lecithin, edible, tech., bleached, non-ret, dms., c.l., works	lb.	.15	.17
l.c.l., same basis	lb.	.15½	.17½
unbleached, non-ret, dms., c.l., same basis	lb.	.13	.15
l.c.l., same basis	lb.	.14½	.16½
Lemon bioflavonoid complex, 25-lb. lots, works	lb.	9.00	—
dl-Leucine, dms., works	lb	12.25	15.00
Licorice root, whole, bbls	lb.	.10	.12
gran., bbls	lb.	.15	.17
powd., bbls	lb	.12	.15
Lignosulfonate, 70% tannin, bgs., c.l., works	lb.	.06½	—
l.c.l., works	lb.	.06¾	—
Lime, chemical (quicklime), bulk, c.l., metropolitan N. Y. destination, freight equalized with nearest producing point	ton.	18.71	—
Lime, hydrated, bulk, c.l., same basis.	ton.	20.21	—
Spray, bgs., c.l., same basis	ton.	23.21	—
Lime salts (see Calcium).			
Lime-ammonium nitrogen 20.5% N (see Ammonium nitrate with dolomite).			
Limestone, grd., bgs., works	ton.	3.50	4.00
Linalool, ex bois de rose oil, dms.	lb.	3.65	4.80
ex lignaloe wood oil, dms	lb.	5.30	7.10
Linalyl acetate, ex bois de rose, 90-92%, dms	lb.	3.30	5.10
96-98%, dms	lb.	4.05	6.75
ex petitgrain, bots	lb.	4.80	5.90
Lindane, 25% formulation, dealers, dms., frt. alld	lb.	1.00	1.09
99%, tech., formulators, dms., frt. alld	lb.	2.65	3.25
Linden flowers with leaves, bls	lb.	.30	—
without leaves, bls	lb.	.35	—
Linseed meal, expeller, 32-34% bulk, Midwest, mills	ton.	62.50	—
extracted 36% bulk same basis	ton.	53.50	54.00
Litharge, coml., powd., bbls., c.l., works, frt. equald	lb.	.18	—
l.c.l., same basis	lb.	.19	—

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Hundreds of new users . . . on all kinds of operations . . . are using lactose to replace all or part of carbohydrates previously used . . . because lactose provides many of the desirable properties of other sugars — plus many profit-promoting benefits found only in pure milk sugar.

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Lithium benzoate, dms.....lb. 1.65 - 1.67
Bromide, NF, dms., works, frt. equald lb. 2.45 - —
Carbonate, NF, dms., c.l., t.l., dlvd..lb. 1.29½- —
ton lots to t.l., dlvd..lb. 1.30 - —
tech., dms., c.l., t.l., dlvd., frt. alld. works.....lb. .22 - 1.10½
l.c.l., same basis.....lb. .85 - 1.11½
Chloride, CP, anhyd., ton lots, lb. 1.28½- —
tech., anhyd., dms., c.l., t.l., dlvd., or works, frt. alld. lb. 1.00 - 1.05
l.c.l., same basis.....lb. 1.05 - 1.05½
Citrate, NF, dms.....lb. 1.60 - 1.64
Fluoride, bbls., 10,000-lb. lots, dlvd..lb. 2.17½- —
ton lots, dlvd.....lb. 2.18½- —
less ton lots, dlvd.....lb. 2.23½- —
Hydride powd., dms., 500-lots, works lb.10.50 -12.50
Hydroxide, monohydrate, dms., c.l., t.l., dlvd. or works, frt. alld..lb. .80 - .80½
l.c.l., same basis.....lb. .81 - .81½
Manganite, dms., works.....lb. .95 - 1.15
Nitrate, tech., dms., 100-lb. lots, lb. 1.25 - —
Salicylate, dms.....lb. 1.60 - 1.70
Silicate, dms., works.....lb. 1.10 - 1.30
Stearate, dms., c.l., works....lb. .47½- —
ton lots, works.....lb. .48½- —
less-ton lots, works.....lb. .53½- —
Sulfate, dms., 100-lb. lots.....lb. 1.15 - —
Titanate dms., works.....lb. 1.15 - 1.35
Lithopone, ord., bgs., c.l., dlvd. E. lb. .08 - —
l.c.l., dlvd. E.....lb. .08¾- —

Lobelia herb, bls.....lb. 1.50 - —
Lobeline sulfate, bots., works..oz.37.50 -39.00
Logwood extract, cryst., No. 1, bbls., l.c.l..lb. .41 - —
No. 2, bbls., l.c.l.....lb. .39 - —
liq., No. 1, bbls., l.c.l.....lb. .20 - —
No. 2, bbls., l.c.l.....lb. .19 - —
No. 3, bbls., l.c.l.....lb. .18½- —
solid, No. 1, boxes, c.l.....lb. .35 - —
Lycopodium, cs.....lb. 1.20 - 2.00
dl-Lysine hydrochloride, bots. kilo.140.00 -150.00

M

Mace, Siauw, siftings, bls.....lb. 2.50 - 2.80
West Indian, No. 1, bls. shipment lb. 3.15 - 3.25
Magnesia, calcined, tech., bgs., ctns., works lb. .25¼- .26
syn. rubber grade, light, bgs., c.l., works lb. .29¼- —
extra light, bgs., c.l., works, lb. .29¼- .30
l.c.l., works.....lb. .30 - —
USP, light, ctns.....lb. .35 - .36
heavy, bbls.....lb. .45 - .52
Magnesite, chemical grade, calcined, powd., bgs., c.l., works, frt. equald ton.82.50 - —
dead-burnt, standard grain, bulk, c.l., Chawelah, Wash..ton.40.00 - —

Magnesium bromide, jars.....lb. .90 - 1.00
Carbonate, tech., bgs., c.l., frt. equald lb. .10¼- —
l.c.l., frt. equald.....lb. .12 - .13
truckloads, frt. equald..lb. .11 - —
USP, bgs., c.l., frt. equald..lb. .12½- —
t.l., frt. equald.....lb. .13 - —
l.c.l., frt. equald.....lb. .14 - .15
Above prices are quoted f.o.b. works, freight equalized with metropolitan New York and competitive producing points.
Chloride, anhyd., 92% flake or pebble, dms., c.l., works.lb. .12¾- —
t.c.l., same basis.....lb. .14 - .15
hydrous, 99% flake, bgs., c.l., works..ton.55.00 - —
l.c.l., works.....ton.65.00 -80.00
Gluconate, dms., cns.....lb. 1.34 - 1.41
Hydroxide, NF, medicinal, bbls., dms., kgs lb. .26½- .30
Metal, 99.8% ingots, 10,000 lb. lots or more, works..lb. .36 - —
pigs, 10,000-lb. lots or more, works..lb. .35¼- —
sticks, cs., works, frt. alld. on carlots..lb. .39 - —
Nitrate, cryst., dms., works.....lb. .29 - —
Oxide (see Magnesia, calcined).
Peroxide, 15%, dms., works....lb. 1.00 - 1.05
Phosphate, tribasic, NF, bbls...lb. .75 - —
Silicate (see Talc).
Silicofluoride, dms., works.....lb. .10½- .12
Sulfate, tech., bgs., c.l., works, 100 lbs. 2.15 - —
l.c.l., works.....100 lbs. 2.90 - 3.15
USP, cryst., bgs., c.l., works, 100 lbs. 2.35 - —
l.c.l., 5,000 lbs., 1 withdrawal..100 lbs. 3.10 - —
smaller lots.....100 lbs. 3.35 - —

Magnesium trisilicate, USP, dms., 5,000-lb. lots..lb. .38 - —
1,000-lb. lots.....lb. .40 - —
100-lb. lots.....lb. .45 - —
Bulky and super grades of magnesium trisilicate, 7c. per lb. higher.
Malathion, dms., c.l., works....lb. .90 - —
l.c.l., works.....lb. .92 - 1.02
Maleic anhydride, dms., c.l., dlvd. E lb. .27 - —
l.c.l., dlvd. E.....lb. .28 - —
tanks, dlvd. E.....lb. .26 - —
Prices on maleic anhydride W. of Rockies, 1½c. higher.
Mandrake root bls.....lb. .55 .60
Manganese acetate, bbls. dlvd lb. .35 - —
Arsenate, bgs.....lb. .16 - —
Borate, tech., 6b. dms.....lb. .25 - —
Carbonate, bbls., works.....lb. .22 - —
Chloride, anhyd., dms., works..lb. .25½- —
Dioxide, African, 84-87%, 40,000 to 99,999-lb. lots, burlap paper lined, bgs., gross for net, works..ton.102.00 - —
paper bgs., works....ton.98.50 - —
dms., works.....ton.106.50 - —
Prices for manganese dioxide in 10,000 to 40,000-lb. lots $3 per ton higher
Gluconate, dms.....lb. 1.80 - 1.94
Hydrate, bbls. dlvd.....lb. .36 - —
Hypophosphite, NF, dms.....lb. 3.52 - —
Linoleate, liq., 4.35% Mp, dms..lb. .32½- —
solid, precip. 8.2% Mn. bbls. lb. .37½- —
Naphthenate, liq., 6% Mn., dms., frt. alld lb. .27 - —
Resinate, fused, 3½% Mn. dms. lb. .24 - —
precip. 6½-7% Mn. dms lb. .28 - —
Sulfate, fertilizer grade, 65%, bgs., c.l., dlvd. S. E....ton.80.50 - —
l.c.l., dlvd. S. E....ton.87.50 - —
Tallate, 6%, dms.....lb. .24 - —
Mangrove bark, E. African, 38% tannin, c.l., ex dock..ton.66.00 - —
So. American 30% tannin, c.l., ex dock..ton.55.00 -58.00
Mannitol, com'l, fib. dms., ton lots, works..lb. .60 - —
dms. to ton lots, works....lb. .62 - —
single dm., works.....lb. .65 - —
MBTS (see Mercaptobenzothiazyl disulfide).
MBT (see 2-Mercaptobenzothiazole).
Melamine, bgs., c.l., works.....lb. .30 - —
l.c.l., works.....lb. .31 - —
Menadione, USP, bots.....gram. .044 .05
Menthol, nat., USP, Brazilian, cs..lb. 6.30 - 6.40
syn. USP, racemic, cns.....lb. 4.95 - —
Menthyl salicylate, tins.....lb 4.00 4.25
2-Mercaptobenzothiazole, bgs., fib. dms., ton-lots, works, frt. alld..lb. .40 - —
less ton lots, same basis lb. .42 - —
Mercaptobenzothiazyl disulfide, bgs., fib. dms., ton-lots, works, frt. alld..lb. .50 - —
less ton lots, same basis lb. .52 - —
Mercuric chloride, NF, cryst., dms., 50-lb. lots or more lb. 4.98 - —
gran., or powd., dms., 50-lb. lots or more lb. 4.78 - —
Cyanide, NF VIII, powd., fib. dms. lb. 6.84 - —
Iodide, red, NF, fib. dms....lb. 7.72 - —
Oxide, red, NF, powd., fib. dms lb. 5.97 - 6.01
yellow, tech. (see Yellow, mercury oxide).
USP, fib. dms.....lb. 6.14 - —
Mercurous chloride (see Calomel).
Iodide, yellow, NF.....lb. 7.72 - —
Mercury, ammoniated (see White precipitate USP).
Metal, 76 lb. per flask net-flask.255.00 -257.00
Mesityl oxide, dms., c.l., dlvd....lb. .14 - —
l.c.l., dlvd.....lb. .15 - —
tanks, dlvd.....lb 1150- —
Meta-aminophenol (see m-Aminophenol).
Metachloroaniline (see m-Chloroaniline).
Metanitroaniline (see m-Nitroaniline).
Metanitroparatoluidine (see m-Nitro-p-toluidine).
Metaphenylenediamine (see m-Phenylenediamine).
Metatoluidine (see m-Toluidine).
Metatolylenediamine (see 2.4-tolylenediamine).
Methanol, nat., denaturing grade, tanks, frt. alld gal. .75 - —
syn., Zone 1, dms., c.l., dlvd. or truckload min., frt. alld. gal. .45 - —
l.c.l., same basis....gal. .51 - —
tankwagon, 2,000-4,000 gal. lots, dlvd. Metropolitan area gal. .33 - —
4,000 gal., min., frt. alld. or dlvd gal. .30 - —
4,000 gal., min., works, Carteret, Camden, N. J gal. .27½- —
Zone 2, dms., c.l., or truckload min. frt. alld. or dlvd. gal. .48 - —
l.c.l., same basis....gal. .54 - —
tankwagon, 2,000-4,000-gal. lots, min., dlvd. Metropolitan areas gal. .36 - —
tanks, 4,000 gal., min., frt. alld. or dlvd.....gal. .33 - —
Synthetic methanol zones are:—Zone 1 is all continental U. S. E. of eastern boundaries of Ariz., Idaho and Utah. Zone 2 is remainder of U. S. west of above state boundaries comprising Ariz., Calif., Idaho, Nev., Ore., Utah and Wash.
Methenamine (see Hexamethylenetretramine).
dl-Methionine, fib. dms., frt. alld. 50-lb. or more lb. 3.50 - —
feed grade, 98%, fib. dms., same basis lb. 2.65 - —
Methoxychlor, 50% wettable powder, dealers, dms., cs., frt. alld. lb. .61 - .64
Methyl abietate, non-ret. dms., c.l., dlvd. zone 1 lb. .20½- —
l.c.l., same basis.....lb. .21 - —
hydrogenated, non-ret. dms., c.l., dlvd. Zone 1.....lb. .21 - —
l.c.l., same basis.....lb. .21½- —
Zone 1 includes New England and Middle Atlantic states, Va., W. Va., N. C., Ohio, Ky., Mich., Ind., Ill., Wis., St. Paul and Minneapolis, Minn.; St. Louis, Mo.; Miss., Ala., Ga., Fla., S. C. and Tenn.
Acetone, nat., dms., l.c.l., E. of Miss., frt. alld.....gal. .62½- —
syn., dms., c.l., frt. alld. E..gal. .63½- —
l.c.l., frt. alld. E.....lb. .69½- —
tanks, frt. alld. E.....gal. .48½- —
Synthetic methyl acetone E. territory is all States East of and including Colo., Mont., N. Mex. and Wyo. West territory all states west of those four.
Acrylate, dms., c.l., t.l., dlvd..lb. .39 - —
l.t.l., dlvd.....lb. .40 - —
tanks, dlvd.....lb. .37 - —
Alcohol (see Methanol).
Amyl acetate, dms., c.l., dlvd. E. lb. .16 - —
l.c.l., dlvd. E.....lb. .17 - —
tanks, dlvd. E.....lb. .13½- —
Ketone, dms., works.....lb. 1.05 - —
Anthranilate, cns.....lb. 2.35 - 2.65
Benzoate, cns., dms.....lb. .60 - .75
Bromide, jobbers, cyls., various sizes, frt. alld. E. lb. .47 - .61
Cellulose, special vis. (1,500-4,000 cps.) 50-lb. bgs., c.l., works. lb. .78 - —
2,000-lb. lots and more, same basis..lb. .65 - —
smaller lots, frt. alld. on 100 lbs...lb. .89 - 1.00

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SODIUM BISULFITE

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Phenobarbital, Calcium Gluconate,
Mercurials, Theophylline,
Bismuth Compounds, Iodides
and Iron Salts.

Mallinckrodt Chemical Works

Second & Mallinckrodt Streets, St. Louis 7, Mo. · 72 Gold Street, New York 8, N. Y.

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IN CANADA: MALLINCKRODT CHEMICAL WORKS LIMITED · 378 ST. PAUL STREET W., MONTREAL

V170 12 SEP 56 XUM

Methyl Cellulose—Nitrocellulose

Methyl cellulose, standard vis. (15,400 cps.), 50-lb. bgs., c.l., frt. alld.	lb.	.60	—
2,000-lb. lots and more, same basis	lb.	.72	—
smaller lots, frt. alld. on 100 lbs.	lb.	.75	.85
Chloride, indust., cyls., frt. equald.	lb.	.22	—
tanks, multi-unit, same basis.	lb.	.15¾	—
single unit, same basis	lb.	.12	—
refrigerator mfrs., cyls., dlvd.	lb.	.46	.48
other consumers or service men, cyls., dlvd	lb.	.67	—
Chloroform (see 1,1,1-trichloroethane).			
Cinnamate, cns	lb.	1.55	1.80
Cyclohexanol, dms., c.l., works	lb.	.35½	—
t.c.l., works	lb.	.36	—
tanks, works	lb.	.34	—
Ethyl ketone, dms., c.l., dlvd.	lb.	.14	—
l.c.l., dlvd.	lb.	.15	—
tanks, dlvd	lb.	.11½	—
Formate, refd., dms	lb.	.35	.40
tech., non-ret. dms., any quantity, works	lb.	.10	—
Heptin carbonate, bots	lb.	31.00	42.00
p-Hydroxybenzoate, fib. dms	lb.	1.90	2.00
Ionone, standard, cns., dms.	lb.	5.00	5.25
Isobutyl carbinol, dms., c.l., dlvd.	lb.	.16	—
l.c.l., dlvd.	lb.	.17	—
tanks, dlvd	lb.	.13½	—
Ketone, dms., c.l., dlvd	lb.	.16	—
l.c.l., dlvd	lb.	.17	—
tanks, dlvd	lb.	.13¼	—

Methyl methacrylate, dms., c.l., t.l., frt. equald, with Melle, W. Va.	lb.	.31	—
smaller lots, same basis	lb.	.31½	—
tanks, same basis	lb.	.29	—
Naphthyl ketone, cryst., cns	lb.	3.00	4.30
Parahydroxybenzoate (see Methyl p-Hydroxybenzoate).			
Roseaniline chloride, NF, fib. dms., 5-lb. lots	lb.	5.64	—
Salicylate, USP, cns., 500-lb. lots	lb.	.59	—
Testosterone, USP, 100-gram bots.	gram	.68	—
2-Methylbenyziamine, dms., t.c.l., works	lb.	1.25	—
2-Methylbenzyl dimethylamine, dms., c.l., works	lb.	1.89	—
t.c.l., works	lb.	1.90	—
2-Methyl-5-ethyl pyridine dms., c.l., works	lb.	.445	—
l.c.l., works	lb.	.45	—
tanks, works	lb.	.43	—
Methylene blue, fib. dms., 100-lb. lots, frt. adjusted	lb.	3.25	3.40
smaller lots, same basis	lb.	3.40	3.55
Chloride, tech., dms., c.l., dlvd. E.	lb.	.13¼	—
l.c.l., same basis	lb.	.16	—
tanks, same basis	lb.	.11¾	—
b-Methylnaphthalene, 32°C. m.p., dms., works	lb.	.90	—
Methylpentanediol (see Hexylene glycol).			
Methylphenylpyrazolone (see 1-Phenyl-3-methylpyrazolone-5).			

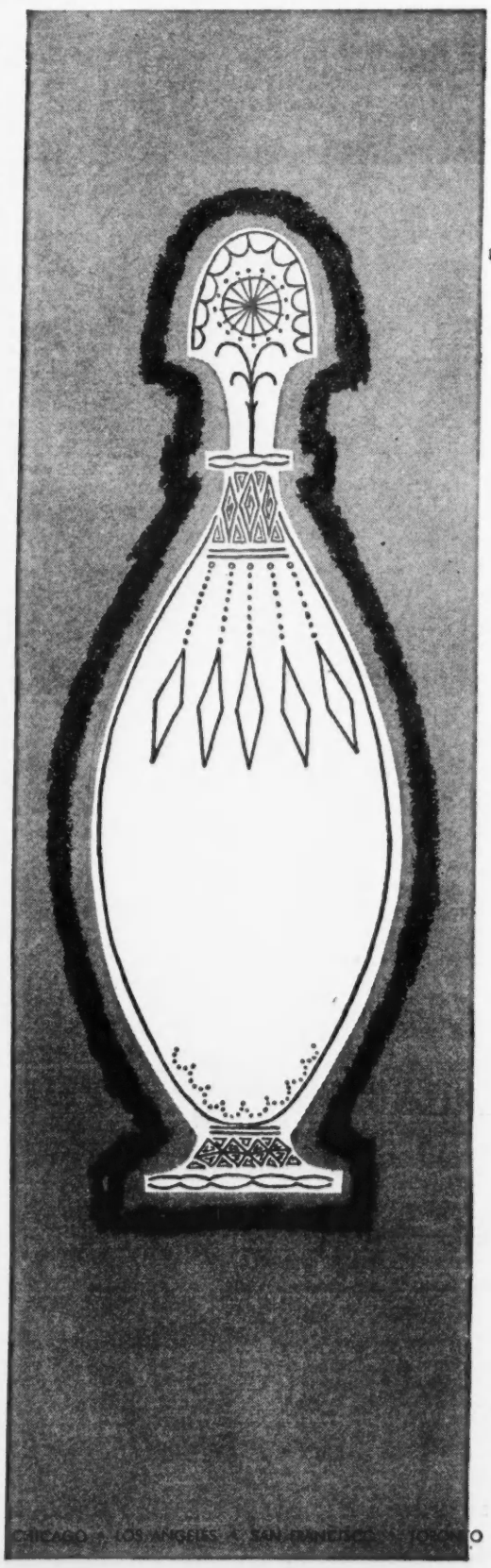
Methylthionine chloride (see Methylene blue).			
Mica, dry-grd., paint plastic, 100 mesh, bgs., c.l., works	lb.	.04	—
roofing, 20 to 80 mesh, works	lb.	.03	—
wet-grd., biotite, bgs., c.l., works, frt. alld. E	lb.	.06½	—
l.c.l., ex-whse	lb.	.07¼	—
paint or lacq., bgs., c.l., 325 mesh, works, frt. alld. E	lb.	.08¼	—
l.c.l., ex-whse. or frt. alld. E	lb.	.09	—
rubber, bgs., c.l., works, frt. alld. E	lb.	.08	—
l.c.l., ex-whse. or frt. alld. E	lb.	.08¾	—
wallpaper, bgs., c.l., works, frt. alld., E	lb.	.08¼	—
t.c.l., ex-whse. or frt. alld. E	lb.	.09	—
white, 5-10 microns, bgs., c.l., works, frt. alld. E	lb.	.08¼	—
c.l., ex-whse or frt. alld. E	lb.	.09	—
Mica, wet-grd. W. of Miss. ½c. higher; W of Rockies, 1c higher			
Mineral spirits (see Petroleum mineral spirits).			
Molasses, blackstrap feed grade, tanks, New Orleans	gal.	.17	.17½
New York	gal.	.17½	.16
Molybdenum (metal), powd., 80 or 200 mesh, ctns., works	kilo.	7.84	—
325 mesh, ctns., works	kilo.	9.13	—
Trioxide, pure, dms., works	lb.	1.15	—
tech., dms., works, basis Mo. content	lb.	1.39	—
Monobutylamine, dms., c.l., E. of Rockies	lb.	.55½	—
l.c.l., same basis	lb.	.56½	—
tanks, same basis	lb.	.53	—
Monochlorobenzene, dms., c.l., frt. alld or dlvd. E	lb.	.10	—
l.c.l., same basis	lb.	.11	—
tanks, same basis	lb.	.08½	—

Monoethanolamine, dms., c.l., dlvd. E	lb.	.27½	—
l.c.l., same basis	lb.	.28½	—
tanks, same basis	lb.	.25	—
Monoethylalphanaphthylamine (see N-Ethyl-a-naphthylamine).			
Monoethylamine, 70% contained amine, dms., c.l., dlvd. E	lb.	.37½	—
l.c.l., dlvd. E	lb.	.38½	—
tanks, dlvd. E	lb.	.35	—
Monoethylaniline (see N-Ethylaniline).			
Monoethylorthotoluidin (see N-Ethyl-o-toluidine).			
Monoisopropanolamine, dms., c.l., dlvd. E	lb.	.27½	—
l.c.l., same basis	lb.	.28½	—
tanks, same basis	lb.	.25	—
Monoisopropylamine, dms., c.l., dlvd.	lb.	.32½	—
l.c.l., same basis	lb.	.33½	—
tanks, same basis	lb.	.30	—
Monomethylamine, 30-35% soln., dms., c.l., frt. equald, 100% basis.	lb.	.40	—
l.c.l., frt. equald 100% basis.	lb.	.40½	—
tanks, frt. equald 100% basis.	lb.	.31	—
40% soln., dms., c.l., frt. equald, 100% basis	lb.	.37	—
l.c.l., frt. equald, 100% basis.	lb.	.37½	—
tanks, frt. equald 100% basis.	lb.	.31	—
Monosodium fluoroacetate (see Sodium fluoroacetate monobasic).			
Mono-tertiary-butylmetacresol (see 6-tert-Butyl m-cresol)			
Glutamate (see Sodium glutamate monobasic).			
Phosphate (see Sodium phosphate monobasic).			
Morphine, cns	oz.	12.40	12.50
Acetate, anhyd., cns	oz.	9.95	10.00
Hydrobromide, cns	oz.	9.90	9.95
Hydrochloride, NF cns	oz.	9.90	9.95
Sulfate USP cns	oz.	9.90	10.05
Morpholine, dms., c.l., dlvd E	lb.	.55¼	—
l.c.l., dlvd E	lb.	.56¼	—
tanks dlvd E	lb.	.52¾	—
Musk, syn. ambrette, 100-lb lots, fib. dms	lb.	4.45	5.15
25-lb. lots, cns	lb.	5.05	5.65
5-lb. lots, cns	lb.	5.20	5.50
ketone, 100-lb. lots, fib. dms	lb.	4.70	5.30
25-lb lots cns	lb	5.35	—
5-lb lots, cns	lb.	5.45	—
xylol, 100-lb lots, fib. dms	lb.	1.40	—
25-lb lots, cns	lb.	1.45	—
5 lb lots cns	lb.	1.50	—
Mustard seed, Danish, yellow, bgs	lb.	.10½	—
Dutch, bgs.	lb.	.10½	—
English, yellow, bgs.	lb.	.11	—
Montana, oriental, bgs	lb.	.09	—
Yellow, bgs	lb.	.10½	—
Myrobalans, J-1, genuine, bgs., ex-dock	ton.	63.00	64.00
crushed, bgs. ex dock	ton	79.00	80.00
Bombay, bgs., ex dock	ton.	61.00	62.00
Extract, Indian, solid, 55% tannin, bgs., ex dock, plus duty	lb.	.10	.10¼

N

Naphtha, painters (see Petroleum naphtha V. M. & P.)			
Solvent (see S)			
Naphthalene, crude, dom., 74°, tanks, frt. equald	lb.	.06¼	—
78°, bgs., c.l., same basis	lb.	.07½	.08
l.c.l., same basis	lb.	.07¾	.08¼
tanks, same basis	lb.	.07	—
imp., 78°, bgs., large lots	lb.	.05	Nom.
refd., indust., chipped, crushed, bgs., frt. equald	lb.	.12½	—
tanks, same basis	lb.	.11¾	—
balls, flakes, wholesalers, jobbers, bbls., c.l., same basis,	lb.	.15½	—
cs., 50 lbs., c.l., same basis	lb.	.15¾	—
1-lb. pkgs., c.l., same basis	lb.	.18½	—
a-Naphthol, bbls., frt. alld	lb.	1.00	—
b-Naphthol, tech., flake, bbls., c.l., works	lb.	.33	—
l.c.l., works	lb.	.35	—
Benzoate, fib. dms., works	lb	3.00	—
custom contract, works	lb	1.65	—
Salicylate dms	lb	5.00	—
Sulfate, cns	lb	35.00	—
a-Naphthylamine, bbls. frt. alld	lb	.50	—
b-Naphthylamine, tech., flake, bbls., works	lb.	1.60	—
Neocinchophen, USP, dms., frt. adjusted	lb.	7.00	8.00
Neomycin, fib. dms., 1 kilo lots, basis, activity	gram.	.45	—
500-999 gram lots, basis, activity,	gram.	.50	—
Nerolin, cns	lb.	2.45	2.65
Niacinamide (see Nicotinamide).			
Nickel acetate, bbls., dlvd	lb.	.77	.90½
Carbonate, bbls., dlvd	lb.	.73¾	.81¾
Chloride, bbls., dlvd	lb.	.38½	.46½
Formate, bbls., ton lots, frt. alld	lb.	.68	.69
Metal, electro cathodes, cs., works	lb.	.64½	—
Nitrate, bbls., works	lb.	.37	.38
Oxide, black, bbls	lb.	.76	—
green, bbls.	lb.	.76	—
Sulfate, bgs., c.l., dlvd	lb.	.30¼	—
l.c.l., dlvd	lb.	.31¼	.38¼
Nicotinamide, USP, dms., frt. adjusted	kilo.	12.00	12.30
Hydrochloride, dms., frt. adjusted.	kilo.	11.50	11.80
Nicotine sulfate, 40%, dealers, 50-lb. dms., frt. alld	lb.	1.20	—
manufacturers, 500-lb. dms., frt. alld.	lb.	1.05	—
Niger seed, bgs	lb.	.12	.12½
Nikethamide, cbys	lb.	7.50	—
m-Nitroaniline, cryst., dms., frt. alld.	lb.	1.15	—
paste, dms., frt. alld., 100% basis.	lb.	1.10	—
o-Nitroaniline, flaked, dms., t.l., frt. alld.	lb.	.49	—
l.t.l., frt. alld	lb.	.51	—
p-Nitroaniline, dms., frt. alld.	lb.	.445	—
Nitrobenzene, dbl. dist., dms., c.l., frt. alld.	lb.	.12	—
l.c.l., frt. alld.	lb.	.13	—
tanks, frt. alld.	lb.	.11	—
Nitrocellulose, ester-soluble, 30-35 cps., ¼, ½, ¾, 5-6, 15-20, 30-40, 60-80, 125-175, secs., bbls., c.l., works	lb.	.34	—
l.c.l., same basis	lb.	.35	.37
18-25 cps., bbls., c.l., same basis	lb.	.36	—
l.c.l., same basis	lb.	.37	.39
250-400, 600-1,000 secs., bbls., c.l., same basis	lb.	.39	—
l.c.l., same bassi	lb.	.40	.42
spirit-soluble, 30-35 cps., ¼, ½, secs., bbls., c.l., same basis	lb.	.41	—
l.c.l., same basis	lb.	.42	.44
5-6 cps., 40-60 secs, bbls., c.l., same basis	lb.	.40	—
l.c.l., same basis	lb.	.41	.43

Denatured alcohol used in the manufacture of nitrocellulose is charged extra. Drums extra but returnable.



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o-Nitrochlorobenzene, dms., c.l., frt. alld. lb. .15 - —
l.c.l., same basis lb. .16 - —
tanks, same basis lb. .13 - —
p-Nitrochlorobenzene, dms. lb. .26 - .27
2-Nitro-4-chlorophenol, dms. lb. .75 - —
Nitroethane, dms., c.l., dlvd. E lb. .24 - —
l.c.l., dlvd. E lb. .24¾- —
tanks, dlvd. E lb. .22½- —
Nitroethane prices West of Rockies are 1c. higher.
Nitrogen solutions, tanks, frt. equald. unit-ton. 1.10 - —
Nitrogenous process tankage, bulk, works unit-ton. 3.00 - 4.00
Sewage sludge, bulk, works, July, August unit-ton. 2.75 + .50
After September 1 unit-ton. 2.95 + .50
Nitromethane, dms., c.l., dlvd. E lb. .24 - —
l.c.l., dlvd. E lb. .24¾- —
tanks dlvd. E lb. .22½- —
Nitromethane prices West of Rockies are 1c. higher.
a-Nitronaphthalene, bbls., frt. alld. lb. .41 - —
Nitropropane-1 and -2, dms., c.l., dlvd. E lb. .22½- —
l.c.l., dlvd. E lb. .23¼- —
tanks, dlvd. E lb. .21 - —
Nitropropane prices West of Rockies are 1c. higher.
o-Nitrophenol, dms., works, frt. equald lb. .94 - —
p-Nitrophenol, dms., frt. alld., c.l. lb. .51 - —
l.c.l., lb. .53 - —
o-Nitrotoluene, dms., c.l., frt. alld. lb. .10 - —
l.c.l. frt. alld lb. .11 - —
tanks, frt. alld lb. .09 - —
m-Nitro-p-toluidine, dms. lb. 1.59 - —
Nitrous ether conc., pots 100-lb. lots lb. 1.28 - 1.33
Nonyl phenol, dms. c.l., frt. alld. lb. .26½- —
l.c.l., frt. alld lb. .27½- —
tanks, frt. alld lb. .24½- —
Nutgalls, Aleppo, bgs. lb. .36 - .38
Chinese, bgs. lb. No orices.
Nutmeg, East Indian, bgs. lb. .95 - —
West Indian, bgs lb. .95 - —
Nux vomica, bls lb. .10 - .12
powd., bbls., bxs lb. .15 - .17

O

Octane, indust., tanks, Bayonne, N. J. gal. .19 - —
Baytown, Tex gal. .15¾- —
Borger, Tex gal. .15¼- —
1-Octanol, tech., dms., c.l., dlvd. lb. .35 - —
l.c.l. dlvd lb. .37 - —
tanks, dlvd lb. .32½- —
Octyl phenol, bgs., c.l., works lb. .24 - —
l.c.l., works lb. .24½- —
tanks, works lb. .23 - —
Drum prices for octyl phenol are 11c. higher.

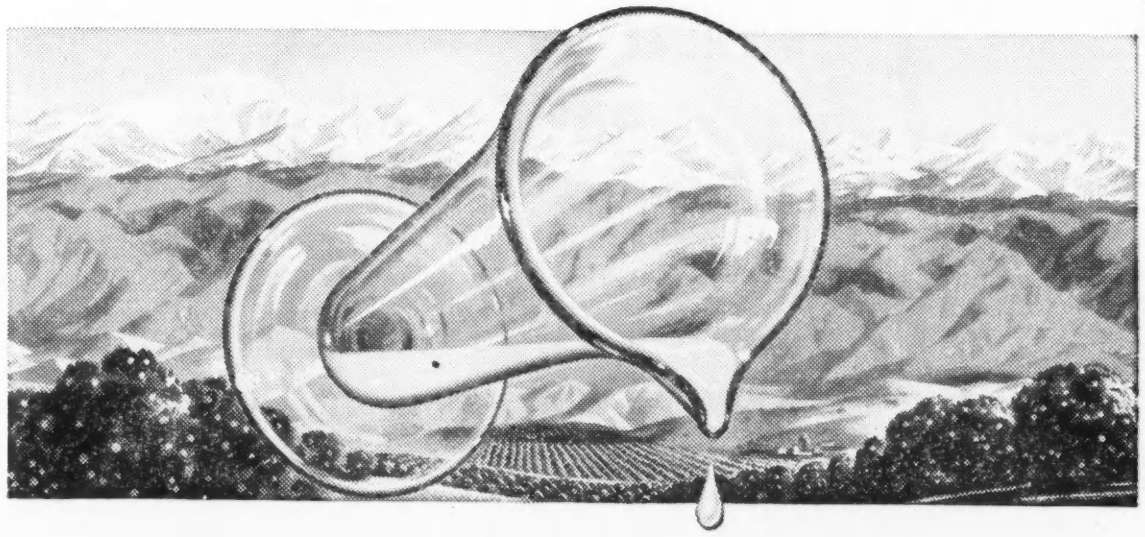
(Essential oils prices listed below are f.o.b. New York, with differences between high and low quotations due to differences in quantity, quality or in individual suppliers, views.)

Oil, abies, siberica, cns. lb. 3.05 - 3.35
Almond, artif., bitter (see Benzaldehyde).
nat., bitter, F.P.A., bots. lb. 3.00 - 3.75
NF, bots. lb. 3.25 - 3.75
sweet, USP, cns., dms. lb. 1.25 - —
Allspice (see Oil, pimento).
Amyris, dms. lb. 1.25 - —
Angelica root, bots. lb. 66.00 -100.00
seed, bots lb. 56.00 -95.00
Aniline (see A).
Anise, USP, dms lb. 3.50 - 4.00
Apricot, kernel, USP, dms. lb. .48 - .65
Avocado, cns. lb. 3.25 - —
Bay, NF, Puerto Rican, 50-55%, cns. lb. 2.15 - 3.00
55-60%, cns. lb. 2.50 - 3.00
West Indian, 50-55%, cns., dms., lb. 1.85 - 2.40
Bergamot, nat., NF, Italian, cns. lb. 9.75 -11.00
Birchtar, crude, cns. lb. 1.50 - 1.90
rectified, NF, cns. lb. 1.75 - —
Bois de rose, Brazil, dms. lb. 2.80 - —
Mexican (see Oil, lignaloe wood).
Bone, dms., works lb. .65 - .70
Cajeput, native, cns. lb. 1.75 - 3.30
redist., USP, cns. lb. 2.25 - 3.40
Calamus, bots lb. 12.00 -20.00
Camphor, sassafrassy, dms. lb. .30 - .45
white, dms. lb. .29 - —
Cananga, native, cns. lb. 8.50 - 8.75
rectified, cns. lb. 10.00 -13.00
Caraway, NF, cns. lb. 3.50 - —
Capsicum (see Capsicum oleoreson.
Cardamom, NF, bots. lb. 38.00 -40.50
Cassia, USP (see Oil, cinnamon, USP).
Castor, blown, dms., c.l. lb. .2500- —
l.c.l. lb. .2600- —
dehydrated, bodied, dms., c.l lb. .2610- —
l.c.l. lb. .2710- —
tanks lb. .2410- —
unbodied, dms., c.l. lb. .2460- —
l.c.l. lb. .2560- —
tanks lb. .2260- —
hydrogenated, bgs., c.l., dlvd lb. .25¾- —
l.c.l., dlvd. lb. .31¾- —
No. 3, tech., dms., c.l. lb. .19¼- —
l.c.l. lb. .20¼- —
tanks lb. .17¼- —
No. 1, Brazilian, tanks lb. .18 - —
USP, dms., c.l. lb. .23 - —
l.c.l. lb. .24 - —
tanks lb. .21 - —
refd. and deodorized, dms., c.l lb. — - —
l.c.l. lb. .28½- —
tanks lb. — - —
sulfonated, 50%, dms., works. lb. .13½- .14½
75%, dms., works lb. .17½- .18½
Cedarleaf, USP, XIII, cns., dms. lb. 3.50 - 3.90
Cedarwood, cns., dms lb. .75 - 1.00
Celery seed, bots lb. 8.00 -20.00
Chamomile, blue, Hungarian, bots. lb. 190.00-195.00
Chenopodium, NF, cns. lb. 3.50 - 4.05
Chinawood (see Oil, tung).
Cinnamon, bark, bots. lb. 36.00 -70.00
leaf, crude, dms lb. 1.60 - 2.00
USP, cns., dms. (Cassia) lb. 10.25 -10.90
Citronella, Ceylon, cns., dms. lb. .88 - —
Java, cns. lb. 1.95 - —
Java-type, cns. lb. 1.35 - —
Clove, bud, USP, cns., dms. lb. 2.65 - 2.90
leaf, crude, dms lb. 1.20 - 1.50
Coconut, crude, tanks, N. Y. lb. .12¼- —
Pac. coast lb. .11⅛- —
refd., Cochin type, dms., tax incl., lb. .19 - .19½
deodorized, tax incl., dms. lb. .22 - .23
Cod, Newfoundland, dms. lb. .12 - —
Codliver, USP, dms gal. 1.45 - 1.55
Copaiba, cns. lb. 1.75 - 2.50
Coriander, USP, bots. lb. 11.75 - —
Corn, crude, tanks, works lb. .12 - —
foots (soapstock), acid 95%, tanks, N. Y. lb. .05⅜- —
refd., salad, dms lb. .17¾- .18
tanks lb. .1559- —
Costus, bots. oz. 8.00 - —

Oil, cottonseed, crude, tanks, South East lb. .11⅞- .12
Valley lb. .11⅞- .12
Texas lb. .12 - .12½
foots (soapstock), acid 95%, tanks, N. Y. lb. .04½- —
refd., salad, dms. lb. .17⅜- .17¾
tanks lb. .15⅜- —
Creosote (see Creosote, coaltar).
Cubeb, cns. lb. 4.10 - 4.25
Cumin, bots., cns lb. 4.75 - 5.00
Cypress, bots. lb. 5.30 - —
Degras (see D).
Dillseed, bots lb. 2.80 - 4.25
Dillweed, dom., bots., dms lb. 3.25 - 4.25
Dip (see D)
Erigeron, cns lb. 5.50 - 7.50
Eucalyptus, NF, rectified, 70-80%, dms lb. .62 - —
80-90%, dms. lb. .72 - —
Fennel, sweet, USP, cns lb. 2.80 - —
Fir, canada cns lb. 2.75 - 3.25
Fish, refd., alkali, dms lb. .1500- .1550
kettle-bodied, dms lb. .1730- .1780
light-pressed, dms lb. .1350- .1400
tanks lb. .1200- —
Fishliver, crude for feeds or concentrating 4,000 to 12,000 A units per gram, dms., 1,000,000 units. .08 - .09
10,000 to 20,000 A units per gram, dms., 1,000,000 units. .09 - .10
25,000 to 35,000 A units per gram, dms. 1,000,000 units. .09 - .10
40,000 to 55,000 A units per gram, dms., 1,000,000 units. .10½- .11
100,000 A units per gram., dms 1,000,000 units. .14 - —
200,000 A units per gram., dms. 1,000,000 units. .15½- —

Oil, fishliver, crude, for feeds or concentrating, 500,000 units A per gram., dms 1,000,000 units. .16 - —
Prices above are based on the USP XIV method of conversion, Morton Stubbs Corrected E x 1900.
Fusel (see F).
Garlic, pure, bots oz. 4.50 - 9.50
Gaultheria (see Oil, wintergreen).
Geranium, Algerian, cns lb. 13.50 -14.50
Bourbon, cns lb. 14.00 -15.00
Turkish (see Oil palmarosa).
Ginger, dist., bots lb. 18.50 -19.50
Grapefruit, dms lb. 1.70 - 3.25
Grease, No. 1, dms., c.l. lb. .15¼- —
l.c.l. lb. .16¼- .18¼
extra, winter, strained, dms., c.l. lb. .17¼- —
prime, burning, dms, c.l. lb. .18¾- —
l.c.l. lb. .19¾- .21¼
Guaiacwood, cns. lb. 1.65 - 2.05
Hemlock, cns. lb. 2.10 - 2.50
Juniper berry, NF, VIII, bots. lb. 2.75 - 4.00
twice rectified, bots lb. 3.60 - 7.00
Tar, NF (see Juniper tar).
Wood, tech., cns. lb. .38 - .55
Lard (see Oil, grease).
Laurel leaf, dms., cns lb. 9.75 -12.50
Lavandin, dms., cns lb. 2.55 - 2.95
Lavender, flower, USP, French 35-37% ester, cns lb. 2.85 - 4.60
38-40% ester, cns lb. 9.25 -10.00
40-42% ester, cns lb. 10.00 -14.00
spike, Spanish, cns lb. 2.05 - 2.60

Oil, lemon, USP, Calif., cns., dms. lb. 4.25 - 5.00
Messina, cns. lb. 5.75 - —
terpeneless, bots. lb. 50.00 -85.00
Lemongrass, cns., dms. lb. 2.10 - —
Lignaloe wood, Mex., cns lb. 4.65 - —
Lime, dist., Mexican, cns. lb. 3.80 - —
West Indian, cns. lb. 3.80 - —
expressed, West Indian, cns lb. 6.00 - 8.00
terpeneless, bots. lb. 50.00 -85.00
Linseed, raw, dms., c.l., N. Y. lb. .1600- —
l.c.l. lb. .1700- .1725
tanks (f.o.b. Minneapolis) lb. .1270- —
New York lb. .1400- —
tankwagon, New York lb. .1440 - .1450
Boiled linseed oil, 006c per lb higher
Mace, dist., cns., dms lb. 5.75 - 6.75
Mandarin (see Oil, tangerine).
Menhaden, crude, tanks, works, Altantic & Gulf lb. .03¾ Nom.
Mineral, white (see Oil, white mineral).
Mirbane (see Nitrobenzene).
Mustard seed, nat., dms. lb. 17½ Nom.
syn., bots lb. 1.60 - 1.85
Neatsfoot, 15° cold test, dms lb. .30 - .33
20° cold test, dms lb. .29 - .32
30° cold test, dms lb. .28 - .31
Neroli, NF, French bots lb. 575.00 - —
Nutmeg, USP, dist., East Indian, cns., dms. lb. 10.90 - —
West Indian, cns., dms. lb. 10.90 - —
Ocotea cymbarum, dms lb. .50 - .60
Oiticica, liq., dms. lb. .16 - .16½
tanks lb. .14½- .14¾



Are you getting full, unadulterated flavor in your lemon oil?

What sets your product above your competitor's? FLAVOR! However you use Oil of Lemon, the flavor of your finished product is the most important consideration.

When something so important costs so little, doesn't it make good sense to buy the best? And the best Oil of Lemon is Exchange Brand, made only from *California and Arizona* lemons—grown and skillfully processed by the Sunkist Growers, the people who know citrus best.

Be sure you don't get adulterated, watered-down lemon flavor.

Ask your supplier to insist on Exchange Brand Oil of Lemon, the *4-to-1 favorite* over all other lemon oils *combined*.

Sunkist Growers

PRODUCTS DEPARTMENT
ONTARIO, CALIFORNIA

Distributed in the U.S. and Canada by

DODGE & OLCOTT, INC.
180 Varick St., New York 14, N. Y.

FRITZSCHE BROTHERS, INC.
76 Ninth Ave., New York 11, N. Y.

UNGERER & COMPANY, INC.
161 Avenue of the Americas, New York 13, N. Y.

Exchange ®

OIL OF LEMON, U.S.P.

Inquiries from countries other than the U.S. and Canada should be directed to the Products Department, Sunkist Growers.

Oil, Oleo—Paraformaldehyde

Oil, oleo, extra, dms. .....lb. .18 - .18½
Olibanum, bots.....lb. 5.50 - 7.65
extra fine, bots.....lb. 8.00 - 9.00
Olive, edible, Spanish, dms., duty-paid gal. 3.45 - 3.60
Orange, sweet, dist., cns.....lb. .45 - .80
expressed, USP, Brazilian, cns., dms. lb. No stocks.
Calif., cns., dms.....lb. .60 - 1.25
Florida, cns., dms.....lb. .50 - .60
Messina, cns. .....lb. 3.85 - 5.85
West Indian, cns., dms. lb. 2.50 - 3.65
sesquiterpeneless, bots. ....lb.65.00 -120.00
Origanum, Spanish, cns.....lb. 2.00 - —
Palm, clarif., dms.....lb. .1500- .1600
Palmarosa, cns.....lb. 8.50 -10.00
Paraffin, pale, 100-110 vis., at 100°F, tanks, East Coast refy gal. .14 - —
Patchouli, dms.....lb. 6.25 - 6.75
Peach kernel, USP (see Oil apricot kernel).
Peanut, crude, tanks, f.o.b. mills. lb. .1300- —
refd., dms.....lb. .18¾- .19¼
tanks .....lb. .16¾- —
Pennyroyal, USP, imported, cns.lb. 2.75 - 3.50
Peppermint, nat., dms.....lb. 6.25 - 7.50
redist., USP, dms.....lb. 6.75 - 8.50
Persic, USP (see Oil, apricot kernel).
Petitgrain, South American, cns., dms...lb. 3.35 - 3.50
Pimento, berry, NF, dms.....lb. 4.50 - 5.00
leaf, cns. .....lb. 2.05 - 2.60

Oil, pine, dest.-dist., dms., l.c.l., works..lb. .12¼- —
ex-whse. .....lb. .14¼- —
steam-dist.,, dms., ex whse. N.Y.C..lb. .176 - —
dlvd. .....lb. .179 - —
Pineneedle, Siberian (see Oil, abies siberica).
Rapeseed, tankcars .....lb. .22 - .22½
Red (see Acid, oleic).
Rice bran, clarif., dms., l.c.l..lb. .18 Nom.
tanks, dlvd. E. .....lb. .15 Nom.
Rose, nat., Bulgarian, bots....oz.43.00 -57.00
Rosemary, Spanish, USP, cns., dms..lb. .60 - 1.00
tech., cns., dms.....lb. .50 - .70
Rue, bots.....lb. 2.00 - 2.50
Safflower, dms., c.l., Atl. coast. lb. .17⅝- —
tanks, same basis .....lb. .15⅞- —
Sage, clary, bots.....lb.18.75 -19.00
Dalmatian, cns.....lb. 4.10 - 4.65
Spanish, cns. .....lb. 1.20 - 1.45
Sandalwood, NF, cns. .....lb.13.50 - —
Sardine, crude, tanks, Pac. coast.. lb. .08¼- .09
Sassafras, artif., dms.....lb. .48 - .60
nat., dom., USP, dms.....lb. 1.45 - 2.10
imp., Brazilian (see Oil ocotea cymbarum).
Savin, cns.....lb. 2.75 - —
Savory, cns. .....lb. 4.25 - —
Sesame, refd., dms.....lb. .38 - .39
Shingle stain, tar distillate, dms., c.l., works..gal. .35 - —
l.c.l., works.....gal. .44 - —
tanks, works.....gal. .23 - —
Snakeroot, Canada, cns.....lb.27.50 -31.00

Oil, soybean, crude, tanks, Decatur. lb. .11⅛- .11¼
foots soapstock, acid, 95% tanks, N. Y..lb. .05⅝- —
refd., alkali, dms.....lb. .1528- .15½
tanks .....lb. .1328- —
clarified, dms.....lb. .1478- .15
tanks .....lb. .1278- —
salad, dms.....lb. .15⅞- .16¼
tanks .....lb. .13⅞- —
Spearmint, USP, dms.....lb. 4.50 - 5.60
Sperm, bleached winter, 45° dms. lb. .1675- .1725
tankcars .....lb. .1500- —
nat., winter, 45°, dms.....lb. .1575- .1625
tankcars .....lb. .1400- —
Spruce, cns., dms.....lb. 2.10 - 2.75
Sweet birch, USP, Northern, cns. lb. 4.25 9.50
Southern, cns.....lb. 2.30 - 2.75
Tall, crude, dms., c.l., works...lb. .03¾- .04¼
tanks, works .....lb. .02½- —
dist., dms., c.l., works.....lb. .07½- —
l.c.l., works .....lb. .07¾- —
tanks, works .....lb. .06¼- —
refd., dms., c.l., works.....lb. .06½- .06¾
lb. .06½- .06¾
l.c.l., works .....lb. .06¾- .07¾
tanks, works .....lb. .05¼- .05¾
Tallow, acidless, dms., c.l.....lb. .13½- —
l.c.l. .....lb. .14½- .16
Tangerine, Floridian, dms....lb. 2.00 - 2.80
Tansy, dms.....lb. 7.50 - 8.40
Tar acid (see T's).
Pine, comi., dms., c.l., works lb. .0561- —
l.c.l., works .....lb. .0634- —
whse. .....lb. .0745- —
tanks, works .....lb. .046 - —
rectified, NF, dms., incl., l.c.l., works, South..gal 1.05 - —
ex whse., N. Y. C..gal 1.15 - —
refd., dms., incl., works, l.c.l. gal. .92 - —
N. Y. whse. .....gal. 1.02 - —

Oil, theobroma (see Cocoa butter).
Thyme, NF, red, cns., dms, ...lb. 1.45 - 1.75
white, cns. .....lb. 1.70 - 2.00
tech., white, cns .....lb. .40 1.85
Tung, dms., c.l., N. Y.....lb. .25 - —
l.c.l., same basis.....lb. .25½- .26
tanks, N. Y. .....lb. .23½- —
domestic mills.....lb. .24¼ Nom.
Turkey red (see Oil, castor, sulfonated).
Turpentine, NF, cns., dms. ...lb. .28 45
Vetiver, Bourbon, cns.....lb.11.75 -11.90
Haitian, cns.....lb. 9.60 -11.00
Java, cns .....lb.18.50 -20.00
Wheat, germ, 5-gal. dms.....gal.11.20 - —
White mineral, tech., 50-65 vis., non-ret. dms. c.l., f.o.b. N. Y..gal. .55 - —
65-75 vis., non-ret., dms., c.l., same basis..gal. .56 - —
l.c.l., same basis..gal. .61 - —
80 90 vis., non-ret., dms., c.l., same basis..gal. .57 - —
l.c.l., same basis..gal. .62 - —
135-138 vis., non-ret. dms., c.l., same basis..gal. .63 - —
l.c.l., same basis..gal. .68 - —
145-155 vis., non-ret. dms., c.l., same basis..gal. .69½- —
l.c.l., same basis..gal. .74½- —
USP, 180-190 vis., non-ret. dms., c.l., same basis..gal. .71 - —
l.c.l., same basis..gal. .76 - —
200-210 vs., non-ret. dms., c.l., same basis..gal. .75 - —
l.c.l., same basis..gal....79 - —
345-355 vis., non-ret. dms., c.l., same basis..gal. .78½- —
l.c.l., same basis..gal. .84½- —
Wintergreen, USP, nat., Northern, cns..lb. 6.35 -10.30
Southern cns lb. 3.20 -19.50
syn. (see Methyl salicylate).
Wood (see Oil, tung).
Wormseed (see Oil, Chenopodium, NF).
Wormwood, cns.....lb. 5.50 - 6.85
Ylang-ylang, Bourbon, bots.....lb.14.00 -16.00
extra, bots.....lb.28.00 -40.00
Madagascar, bots.....lb No stocks
Oleostearine, dms.....lb. .11 - .11½
Opium, USP, cns.....oz.19.20 -19.45
gran., USP, cns.....oz.21.65 -21.90
powd., USP, cns.....oz.21.65 -21.90
Orange cadmium-selenide lithopone, light shade, bbls., frt. alld. E. of Rockies..lb. 1.80 - —
deep shade, bbls.....lb. 2.00 - —
Cadmium-mercury lithopone, deep shade, bbls..lb. 1.78 - —
Chrome, CP, bbls., dlvd. N. of Tennessee and N.C., E. of Miss. R., include Davenport, Tenn., and E. of Minneapolis, Rock Island, St. Louis, St. Paul..lb. .33 - .33½
Chrome orange prices are ½c. higher, dlvd. Ala., Fla., Ga., La. (Shreveport); 1½c. Miss., N. C., S. C., Tenn., Dallas and Ft. Worth, Tex., El Paso, Tex.; 2c. Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.6c. higher dlvd. Pac. Coast for Denver, Pueblo, Salt Lake City. Wichita prices are equalized with Chicago.
Dinitroaniline toner CP.....lb. 1.45 - —
Mineral, American, bbls., l.c.l., works..lb. .2235- —
Molybdated, bbls. .....lb. .46 - .46½
o-Nitroaniline toner, kegs.....lb. 1.15 - —
Orange peel, bitter, Haitian, bls...lb. .14 - .16
sweet, bls. .....lb. .16 - .18
Orris root, Florentine, bls. .....lb. .45 - .50
powd., bbls., bxs. .....lb. .50 - .53
Verona, bls. .....lb. .35 - .40
powd., bbls., bxs. .....lb. .40 - .45
Orthoaminobiphenyl (see o-Aminobiphenyl)
Orthoanisidin (see o-Anisidine).
Orthochloroanilin (see o-Chloroaniline).
Orthochlorobenzaldehyde (see o-Chlorobenzaldehyde).
Orthochloroparanitroanilin (see 2-Chloro-4-nitroaniline).
Orthochlorophenol (see o-Chlorophenol).
Orthocresol (see o-Cresol).
Orthodichlorobenzene (see o-Dichlorobenzene).
Orthonitroanilin (see o-Nitroaniline).
Orthonitrochlorobenzene (see o-Nitrochlorobenzene).
Orthonitrobiphenyl (see o-Nitrobiphenyl).
Orthonitroparachlorophenol (see 2-Nitro-4-chlorophenol).
Orthonitrophenol (see o-Nitrophenol).
Orthonitrotoluene (see o-Nitrotoluene).
Orthophenetidin (see o-Phenetidine).
Orthophenylphenol (see o-Phenyl phenol).
Ortho-tertiary-amylphenol (see o-tert-Amylphenol).
Orthotolidin (see o-Tolidine base).
Orthotoluidin (see o-Toluidine).
Osage, orange, cryst., No. 1, bbls. l.c.l..lb. .40 - —
extract, liq., No. 1, bbls., l.c.l., lb. .19 - —
Ouabain, USP, bots.....gram. 3.00 - 4.00
Oxyquinolin sulfate, cns., 100-lb. lots, works..lb.4.75 - 5.00
smaller lots, works.....lb. 4.92 - 5.17

P

Papain, USP, African, bots.....lb. 3.50 - 4.00
Ceylon .....lb. 3.00 - 3.50
Papaverine, nat. or syn. hydrochloride, USP, cns., 25-oz. to 100-oz. lots..oz. 5.00 - —
smaller lots .....oz. 5.05 - 5.20
Sulfate, cns. .....oz. 7.10 - 7.35
Paprika, Roumanian, bgs.....lb. .26 - —
Spanish, bgs.....lb. .33 - .38
Yugoslavian, bgs.....lb. .32 - .33
Para-aminophenol (see p-Aminophenol).
Para-anisidin (see p-Anisidine).
Parachloro-orthonitroanilin (see 4-Chloro-2 nitroaniline).
Parachloranilin (see p-Chloraniline).
Parachlorobenzaldehyde (see p-Chlorobenzaldehyde).
Parachlorophenol (see p-Chlorophenol).
Paracresol (see p-Cresol).
Paradibromobenzene (see p-Dibromobenzene).
Paradichlorobenzene (see p-Dichlorobenzene).
Paraffin, crude, scale, white, 123°-127°F, ASTM, tanks, refy. lb. .0710- —
fully refd., 122°-124°F, ASTM, tanks, refy..lb. .0815- —
125°-127°F, ASTM, tanks, refy..lb. .0815- —
130°-132°F, ASTM, tanks, refy..lb. .0815- —
132°-134°F, ASTM, tanks, refy..lb. .0815- —
135°-137°F, ASTM, tanks, refy..lb. .0815- —
AMP temperatures are an arbitrary 3°F higher than ASTM.
Paraformaldehyde, 91%, flake, bgs., c.l., frt. alld..lb. .1075- —
l.c.l., frt. alld.....lb. .1275- .1375
powd., bgs., c.l., frt. alld..lb. .15½- —
l.c.l., frt. alld.....lb. .17 - —
USP, X, fib. dms., c.l. .....lb. .183 - —
1,000-lb. lots .....lb. .193 - —
smaller lots .....lb. .208 - —

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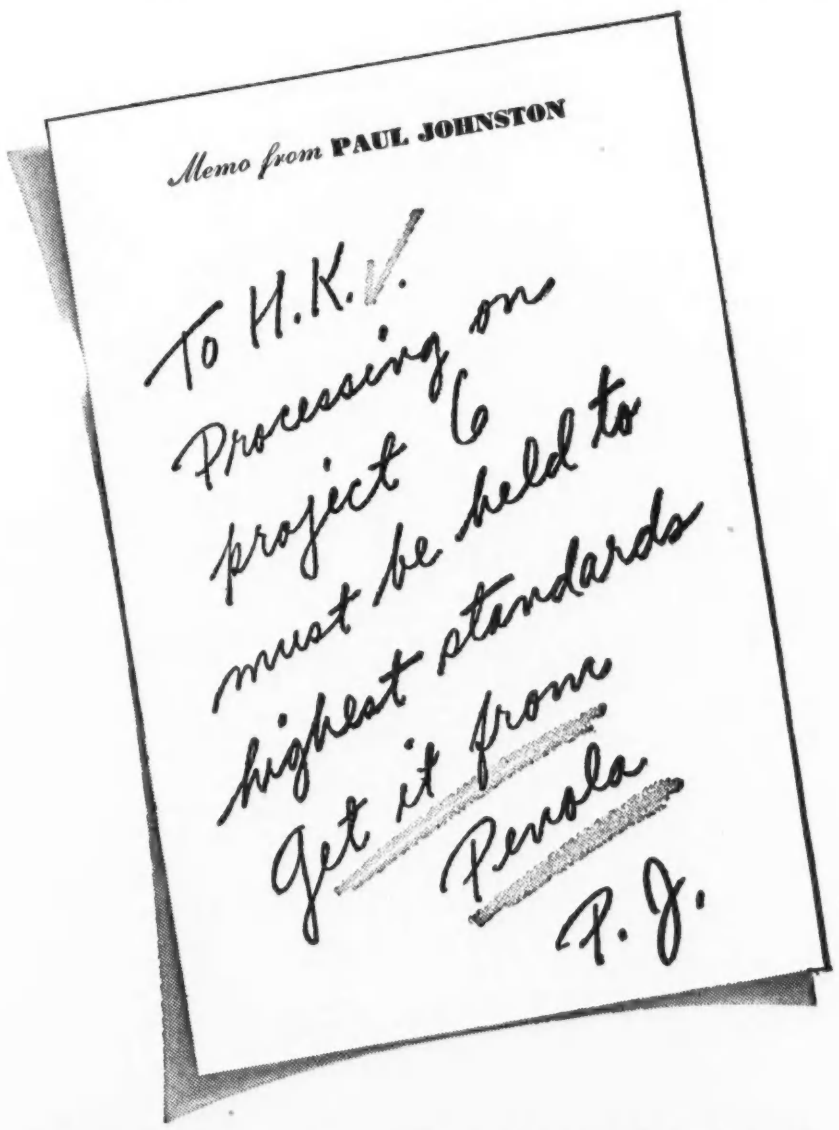
Mine and Refinery at Carlsbad, New Mexico • Chemical Manufacturing Plant at Niagara Falls, New York

Paraldehyde, tecn., bbls., 50-gal. dms., c.l., works lb. .14 - —
l.c.l., works lb. .15 - —
tanks, works lb. .11½- —
Paranitroanilin (see p-Nitroaniline).
Paranitrochlorobenzene (see p-Nitrochlorobenzene).
Paranitrotoluene (see p-Nitrotoluene).
Paranitrophenol (see p-Nitrophenol).
Paraphenetidin (see p-Phenetidine).
Paraphenylenediamine (see p-Phenylenediamine).
Paraphenylphenol (see p-Phenylphenol).
Para-tertiary-amylphenol (see p-tert-Amylphenol).
Para-tertiary butylphenol (see p-tert-Butylphenol).
Parathion, spray powder, 15%, dealers, bgs., dms., frt. alld. lb. .50 - .53
tech., dms., c.l., t.l., works lb. 1.3395- —
l.c.l., works lb. 1.51 - —
Paratoluenesulphonamide (see p-Toluenesulfonamide).
Paris green, dealer, dms., c.l., frt. alld lb. .44 - .47
l.c.l., same basis lb. .45 - .48
Passion flower herb, bls. lb. .20 - .21
Peanut meal, 45%, old process, bgs., mills ton 55.00 Nom.
Pectin, citrus, NF, powd., bbls. lb. 2.05 - 2.06
tech., powd., bbls. lb. 1.25 - —
imported, Danish, ex whse. lb. 1.28 - —
Penicillin, crystalline, potassium, sterile, bulk, 1,000,000 units. .0475- .0520
Procaine bulk 1,000,000 units. .0475- .0520
Sodium, sterile, bulk, 1,000,000 units. .0475- .0520
Pentachlorophenol, dms., c.l., t.l., works, frt. equald lb. .22 - —
l.c.l., same basis lb. .23½- .30
Pentaerythritol, tech., bgs., c.l., works lb. .32 - —
l.c.l., works lb. .33 - —
Di- and tri-isomers (see Dipentaerythritol and Tripentaerythritol).
Pentane, indust., tanks, Tex. refy. gal. .13 - —
Pepper, black, Malabar, spot, bgs lb. .31½- —
red, Gondar, spot, bgs. lb. No prices.
Japanese, hontaka, bgs. lb. .33 - .34
birdseyes, bgs., new crop lb. No prices.
Mombasa, bgs., shipt lb. .56 - .57
Nigerian, bgs. lb. .29½- —
Turkish, bgs. lb. .28 - —
white, bgs lb. .35 - .36
Peppermint leaves, USP, dom., bls., imp., bls. lb. 1.10 - —
dms lb. .70 - .75
Perchloroethylene, dms., c.l., or truckloads, dlvd lb. .13 - —
l.c.l., dlvd. lb. .14½- —
tanktruck, 1,000 gal., min. dlvd lb. .12 - —
tanks dlvd. lb. .11½- —
Peru balsam, dms. lb. 1.50 - 1.75
Petrolatum, amber, dms., c.l., refy. lb. .06 - .06⅜
l.c.l., dlvd. lb. .07¾- .08
tanks, refy. lb. .03¼- .05⅛
cream, dms., c.l., refy. lb. .07⅛- .05⅛
l.c.l., dlvd. lb. .09½- .09¾
tanks, refy. lb. .05¼- .05¾
extra amber, dms., c.l., refy lb. .06¼- .06⅞
l.c.l., dlvd. lb. .06 - .03¼
tanks, refy. lb. .04½- .05⅜
USP, white, lily, dms., c.l., refy. lb. .07⅜- .08¼
l.c.l., dlvd lb. .09¾- .10⅛
tanks, refy lb. .05⅞- .07
snow, dms., c.l., refy. lb. .08½- .08¾
l.c.l., dlvd. lb. .10¾- .10⅝
tanks, refy. lb. .06⅜- .06⅞
soft, dms., cl., refy lb. .07¾- .08¾
l.c.l., dlvd. lb. .09½- .09¾
tanks, refy. lb. .05¼- .06⅞
yellow, soft, dms., c.l., refy lb. .06¼- .06¾
l.c.l., dlvd. lb. .07¾- .08⅛
tanks, refy. lb. .04½- .06⅞
Petroleum, lacquer diluent, 150°-240°F, b.r., tanks, West Coast, ex tax, Los Angeles. gal. .169 - .204
East coast, N. J., N. Y. gal. .19 - —
Group 3, benzol-type gal. .14125- .14625
toluol-type gal. .13125- .13375
Mineral spirits, reg., tanks, Calif., ex tax, San Francisco gal. .164 - —
East coast, N.J., N.Y. gal. .17 - —
Group 3 gal. .11875- —
tankwagon, Boston gal. .19 - —
Buffalo gal. .195 - —
Chicago gal. .279 - —
Cleveland gal. .22 - —
Newark gal. .18 - —
New York gal. .18 - —
Philadelphia gal. .185 - —
Pittsburgh gal. .18 - —
Providence gal. .195 - —
odorless, tanks, refy., Watson, Cal. gal. .245 - —
Borger, Tex. gal. .24 - —
Houston, Tex. gal. .24 - —
Wood River, Ill. gal. .2625- —
N. J., dlvd gal. .32 - —
N. Y., dlvd gal. .33½- —
tankwagon, N. J., dlvd gal. .36 - —
N. Y., dlvd. gal. .37 - —
Naphtha, cleaners, tanks, East Coast, N. J., and N. Y. gal. .17 - —
Group 3 gal. .12875- —
tankwagon, Newark gal. .18 - —
New York gal. .18 - —
Philadelphia gal. .185 - —
High solvency (see Petroleum solvent, partial aromatic)
VM&P, 225°-300°F., b.r., tanks, West Coast, Los Angeles gal. .169 - —
Portland, Ore gal. .175 - —
San Francisco gal. .174 - —
Seattle, Wash gal. .175 - —
East Coast, N. J. and N. Y. gal. .18 - —
Group 3 gal. .12875- —
tankwagon, Boston gal. .205 - —
Chicago gal. .289 - —
Cleveland gal. .23 - —
Newark gal. .195 - —
New York gal. .195 - —
Philadelphia gal. .20 - —
Pittsburgh gal. .19 - —
Solvent, partial aromatic, tanks, 205°-282°F., b.r., 41°C., m.a.p., N. Y., N. J gal. .245 - —
212°-278°F b.r., 43°C. m.a.p., N. J gal. .26 - —
212°-284°F. b.r., 19°C. m.a.p., N. J gal. .29 - —
224°-280°F., b.r., 48°C. m.p.a., Houston gal. .213 - —
273°-361°F. b.r., 29°C. m.a.p., N. J gal. .29 - —
282°-325°F. b.r., 41.5°C. m.a.p. Houston gal. .25 - —
287°-386°F., b.r., 31°C., m.a.p., N. J. gal. .29 - —
310°-314°F., b.r., 13.5°C., m.a.p., Texas City gal. .33 - —
310°-348° b.r., 17°C., m.a.p., N. Y., N. J gal. .35 - —
320°-360°F., b.r., 16°C., m.a.p., N. Y., N. J gal. .33 - —
324°-349°F, 37°C, m.a.p., Houston gal. .33 - —
341°-390°F., b.r., 35°C., m.a.p., N. J gal. .27 - —
352°-413°F., b.r., 30°C., m.a.p. Houston gal. .33 - —
358°-401°F., b.r., 25°C., m.a.p., N. Y., N. J. gal. .39 - —
364°-404°F b.r., 19°C. m.a.p., N. Y., N. J gal. .425 - —
367°-418°F b.r., 19.6°C. m.a.p., N. Y., N. J gal. .33 - —

Petroleum solvent, rubber, tanks, Cal., ex tax, San Fransisco gal. .173 - —
East Coast, N. J., N. Y., gal. .18 - —
Group 3 gal. .12875- —
Stoddard, tanks, East Coast, N. J., N. Y. gal. .17 - —
Group 3 gal. .12375- —
Pennsylvania, western gal. .15 - —
tankwagon, Boston gal. .19 - —
Chicago gal. .280 - —
Cleveland gal. .22 - —
Los Angeles, ex tax gal. .194 - —
Newark gal. .18 - —
New York gal. .18 - —
Philadelphia gal. .185 - —
Pittsburgh gal. .18 - —
Sulfonate, oil soluble, 60-62% sulfonic content, non-ret. dms., c.l., works lb. .16½- .18¾
l.c.l., works lb. .17½- .19
tanks, works lb. .14½- .17
50-55% sulfonic content, non-ret. dms., c.l., works lb. .16 - —
l.c.l., works lb. .17 - —
tanks, works lb. .13 - —
o-Phenetidine, dms., t.l., frt. alld. E lb. .91 - —
l.c.l., same basis lb. .93 - —
p-Phenetidine, dms., c.l., frt. alld. lb. 1.00 - —
l.c.l., same basis lb. 1.03 - —
Phenobarbital, USP, dms., 100-lb. lots lb. 3.50 - —
Phenobarbital-sodium, USP, dms., 100-lb. lots lb. 3.50 - —
Phenol, 90-92% (cresol 8-10%), non-ret. dms. c.l. frt. alld. E. of Rockies lb. .17¾- .18
l.c.l., same basis lb. .18¼- .19
tanks, same basis lb. .16 - —
Phenol, 82-84% (cresol 16-18%), non-ret. dms., c.l., same basis lb. .17½- —
l.c.l., same basis lb. .18½- —
tanks, same basis lb. .15½- —
39°C or above, tar distilled, non-ret. dms., c.l., same basis. lb. .19¼- .19½
l.c.l, same basis lb. .19¾- .20½
tanks, same basis lb. .17½- —
USP, syn., dms., c.l., t.l., frt. alld lb. .20 - —
l.c.l., same basis lb. .22 - —
tanks, same basis lb. .18 - —
Phenolphthalein, USP or yellow, bbls., dms., 2,000-lb. lots. lb. 1.10 - —
smaller lots lb. 1.12 - 1.17
Phenothiazine, NF fib. dms., c.s., frt. adjusted lb. .39 - —
over 2,100 lbs., same basis lb. .41 - —
less than 2,100 lbs., same basis. lb. .43 - —
Phenyl acetate, dms., 100-lb. lots, works lb. .50 - —
Salicylate (see Salol.)
Phenylacetaldehyde, soln., 50%, bots lb. 2.40 - 2.70
100%, bots lb. 4.00 - 4.65
Phenylacetamide, 125-lb. dms., works lb. 1.10 - —
smaller dms., works lb. 1.15 - 1.10
dl-Phenylalanine, dms., works lb. 27.00 -37.50
1-Phenyl-3-carbethoxy pyrazolone-5, 250-lb. fib. drums., dlvd. E lb. 3.60 - —
smaller dms., dlvd. E lb. 4.00 - —
N-Phenyldiethanolamine, dms., c.l., dlvd. E lb. .40¼- —
l.c.l., dlvd. E lb. .41½- —
tanks, dlvd. E lb. .38½- —
m-Phenylenediamine, dms. frt. alld. lb. 95 - —
o-Phenylenediamine, coml., 100 to 1,000 lbs., fib. dms., works lb. 1.70 - 1.80
p-Phenylenediamine, refd., tech., dms., works lb. 1.42 - —
Phenylethanolamine, dms., c.l., works lb. .75½- —
l.c.l., same basis lb. .76 - —
Phenylethyl acetate, bots lb. 1.25 - 1.60
b-Phenylethylamine, dms., 1,000-lb. lots, works lb. 1.10 - —
smaller lots, works lb. 1.15 - 1.40
Phenylhydrazine base, CP, bots lb. 3.00 - 3.07
Hydrochloride, coml., kgs., works. lb 1.75 - —
purif., bots., works lb. 5.17 - —
1-Phenyl-3-methyl pyrazolone-5, 250-lb lots, dlvd. E lb. 1.80 - —
smaller lots, dlvd lb. 2.10 - —
Phenylethylphenyl acetate, bots lb. 4.15 - 4.35
o-Phenylphenol, dms., l.c.l., works. lb. .42 - .44
p-Phenylphenol, bgs., c.l., works lb. .37 - —
l.c.l., works lb. .41½- —
Phloroglucinol, coml., fib. dms., works lb 6.40 - —
C.P., bots., works lb 17.75 - —
tech., fib. drums., works lb 10.45 - —



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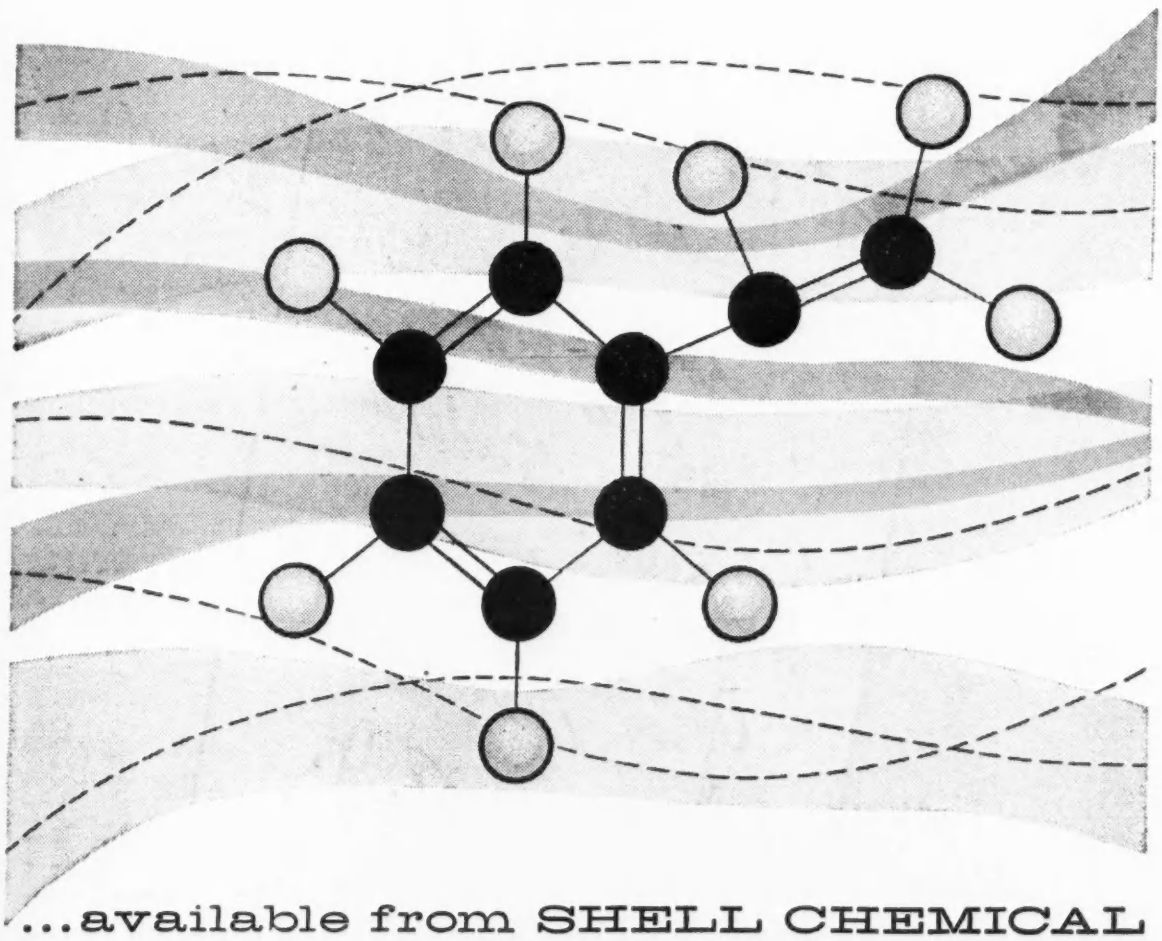
Penola

Phosphate, defluorinated (see under D).
Rock, Curacao, Atlantic ports, New Orleans..ton.45.00 • —
Florida, land pebble, run-of-mine, washed, dried unground, bulk, c.l., mines, 68-66%, b.p.l., bulk, c.l., mines..long-ton. 4.94 • 4.99
70-68%, b.p.l., c.l., same basis..long-ton. 5.34 • 5.39
72-70%, b.p.l., c.l., same basis..long-ton. 5.99 • —
75-74%, b.p.l., c.l., same basis..long-ton. 6.99 • —
78-76%, b.p.l., c.l., same basis..long-ton. 7.99 • —
The Florida prices (above) are based on fuel oil at $2.47 per bbl. and labor at $1.43. Recent oil advance currently absorbed.
Phosphorus, amorph., red, dms., t.l., works..lb. .48 • —
smaller lots, works.....lb. .49 • .50
white (yellow), solid, dms., c.l., works, frt. equald..lb. .20 • .20½
l.c.l., works, frt. equald. lb. .21½ • —
tanks, works, frt. equald. lb. .19 • —
Oxychloride, dms., c.l., works lb. .14 • —
l.c.l. works.....lb. .15 • —
tanks, works.....lb. .12½ • —
Pentasulfide, solid, dms., c.l., works lb. .11½ • —
l.c.l., works.....lb. .12½ • —
Phosphorous pentoxide, dms., c.l., works..lb. .13½ • —
l.c.l., works.....lb. .16½ • —
Sesquisulfide, tins, cs., c.l., works. lb. .38 • —
Trichloride, dms., c.l., works..lb. .14 • —
l.c.l., works.....lb. .15 • —
tankcars, works.....lb. .12½ • —
Phthalic anhydride, ogs, c.l., works, frt. equald..lb. .20 • .21
l.c.l., same basis.....lb. .21 • .22
tanks, same basis.....lb. .19½ • .20½
Phthalimide, 97%-98%, dms., frt. equald..lb. .65 • —
Phthalylsulfacetamide, 1,000-lb. lots or more..lb. 5.00 • —
a-Picoline, ret. dms., c.l., works, frt. equald..lb. .43 • .43½
l.c.l., works, frt. equald.....lb. .44 • —
tanks, same basis .....lb. .415 • .422
b,g-Picoline, 5°C, dms., c.l., works. lb. .32½ • —
l.c.l., works.....lb. .33 • —
g-Picoline, 98%, dms., works.....lb. 2.00 • —
Pilocarpine hydrochloride, USP, bots..oz. 4.75 • 5.25
Nitrate, USP, bots., vials.....oz. 4.65 • 4.75
Pimento, Jamaican, bgs.....lb. .72 • —
Mexican, bgs.....lb. .58 • —
Pink root, bls. .....lb. 2.00 • 3.25
d-Piperazine hexahydrate, French Codex, bots kilo. 8.00 • 8.50
Piperidine, dist., dms., frt. equald. lb. 2.60 • 2.70
Piperonyl butoxide, dms., dlvd. E..lb. 4.50 • 5.05
Cyclonene, dms., dlvd. E.....lb. 3.70 • 4.25
Pitch, coaltar, 150°-170°F. m.p., tanks, works..ton.37.00 • —
Cottonseed, raw, dms., works...lb. .03 • .03¼
tanks .....lb. .02¾ • —
Linseed, dms.....lb. .06 • .06¾
Marine, dms.....lb. .04¼ • .05
Petroleum (see Asphalt, petroleum).
Soybean, dms., works.....lb. .05 • .05½
Tall, tanks, works.....ton.30.00 • 40.00
dms., c.l., works.....ton.50.00 • 70.00
Plaster of Paris (see Gypsum).
Platinum metal, works.....oz.105.00 • 107.00
Pleurisy root, bls.....lb. .45 • .50
Podophyllum resin, NF, dms....lb.15.60 • —
Poke root, bls.....lb. .19 • .22
Polymyxin, bulk, bots., dms., 50 billion units or more, 1,000,000 units. .52 • —
25-50 billion units 1,000,000 units. .54 • —
1-25 billion units 1,000,000 units. .56 • —
Polyoxyethylene sorbitan monostearate, dms., 20,000-lb. lots, works lb. .41 • —
10,000-20,000-lb. lots, works. lb. .43 • —
smaller lots, works lb. .46 • .48
tristearate, dms., 20,000 lb. lots, works lb. .41 • —
10,000-20,000 lb. lots, works. lb. .43 • —
smaller lots, works lb. .46 • .48
Poppy seed, Argentine, bgs.....lb. .17½ • .18
Dutch, bgs.....lb. .23½ • .24
Iranian, bgs.....lb. .14½ • .15
Polish, bgs. .....lb. .22½ • .23
Turkish, bgs. .....lb. No prices.
Potash, caustic reg., flake, 88-92%, dms., c.l., works 100 lbs. 9.15 • —
l.c.l., works ...100 lbs.10.20 • —
liq., 45% basis, dms., c.l., works 100 lbs. 4.25 • —
l.c.l., same basis 100 lbs. 5.05 • —
tanks, same basis 100 lbs. 3.70 • —
Potash, caustic, solid, 88-92%, dms., c.l., works..100 lbs. 8.70 • —
l.c.l., works.....100 lbs. 9.75 • —
Potassium acetate, NF, dms... lb. .31 • .36
Bicarbonate, USP, gran., dms. lb. .22 • —
powd. dms. .....lb. .24 • —
Bichromate, bgs., c.l., works. lb. .16¼ • —
l.c.l., works.....lb. .17 • —
Potassium bichromate in dms ½c. higher.
Bitartrate, NF, doms., gran. or powd., bbls., 5,000 lbs., 1 ship't..lb. .38½ • —
dms., c.l. .....lb. .38 • —
smaller lots .....lb. .39 • .42
imp, kgs. .....lb. .29 • —
Bromate, dms., 1,000 lbs. or more, lb. .50 • —
25-200-lb lots .....lb. .52 • .62
Bromide, USP, gran., bbls., kgs lb. .37 • .38
Carbonate, NF, gram., bbls., dms. lb. .20 • —
powd., bbls., dms..... lb. .21 • .22
tech., calcined, bbls., c.l., works. 100 lbs. 9.00 • —
l.c.l., same basis 100 lbs.10.05 • —
hydrated, 83-85%, bbls., c.l., works..100 lbs. 7.60 • —
l.c.l., works ...100 lbs. 8.65 • —
Chlorate cryst., dms., c.l., works. lb. .10¼ • —
l.c.l., works .....lb. .10½ • .11¼
powd., dms., c.l., works lb. .10¾ • —
l.c.l., works .....lb. .11 • .12
NF, gran., 25-lb. metal dms lb. .35 • —
Chloride, agricultural (see Potassium muriate).
indust., 99.9% KCl, bulk, c.l., works..ton.29.00 • —
bgs., c.l., works.....ton.33.25 • —
99.3% KCl, bulk, c.l., works. ton.27.00 • —
bgs., c.l., works.....ton.31.25 • —
USP, cryst., dms.....lb. .21 • .23
gran., dms .....lb. .15 • .17
powd., dms .....lb. .24 • .26
Chromate, tech., bgs. .....lb. .50 • .50½
Citrate, USP, gran., dms .....lb. .41 • —
powd., dms .....lb. 40½ • 41¼
Cyanide dms., 20,000-lb. lots or more, works lb. .45 • —
2,000-19,999-lb. lots, works lb. .455 • —
smaller lots, works..... lb. .465 • —
Dichromate (see Potassium bichromate).
Ferricyanide, dms., ton lots lb. .50 • —
Ferrocyanide, bgs., ton lots... lb. .22½ • —
smaller lots .....lb. .23 • —
Fluoborate, fib. dms., c.l., works. lb. .30 • —
l.c.l., works .....lb. .31 • —
Fluoride, dms., works..... lb. .37 • .38
Gluconate, dms. .....lb. 1.60 • —
Guaiacolsulfonate, NF, dms....lb. 2.10 • 2.30
Hydroxide, tech. (see Potash caustic).
USP, pellets 100-lb. dms. 1 to 100-dm. lots..lb. .26½ • .33
Hypophosphite, NF, fib. dms., ton lots or less..lb. 1.00 • 1.03
Iodide, dms.....lb. 1.90 • 1.95
Metabisulfite, gran., dms. ....lb. .20 • .21
powd., dms .....lb. .25 • —
Muriate, standard and granular, 59-63% K2O, bulk, c.l., works, base price..unit-ton. .36 • —
July forward..unit-ton. .38 • —
granular, 60-63% K2O, bgs., c.l., works, base price..ton.26.25 • —
July forward.....ton.27.45 • —
Nitrate, cryst., bbls., 25-ton lots. 100 lbs.14.40 • —
smaller lots .....100 lbs.14.65 • 14.90
gran., bbls., 20-ton lots..100 lbs. 9.75 • —
smaller lots .....100 lbs.11.10 • 11.50
powd., bbls., 20-ton lots.100 lbs.10.75 • —
smaller lots .....100 lbs.12.00 • 12.50
USP, gran., dms. .....lb. .18 • —
Potassium nitrate in bags 50c. per 100 lbs. less in kegs, $1 more.
Oxalate, neutral, tech., fine gran., bbls., dms..lb. .30 • .32
Pentaborate, gran., bgs., c.l., works. ton.191.50 • —
dms., ton lots, ex whse..ton.198.00 • —
smaller lots, ex whse..ton.302.50 • —
Powdered potassium pentaborate $10.25 per ton higher.
Perchlorate, dms., c.l., works..lb. .17½ • —
l.c.l., works .....lb. .18 • .19
Permanganate, coml., kgs., works. lb. .24½ • .27½
USP, dms., works .....lb. .27¼ • .29
Persulfate, bbls., c.l., works..lb. .16½ • —
dms., 5-ton lots, works.....lb. .18 • —
1-ton lots, works.....lb. .20 • —
Pyrophosphate, tetrabasic, dms., works..lb. .15½ • .18¼
Prussiate red (see Potassium Ferricyanide).
yellow (see Potassium Ferrocyanide).
Silicate, glass bgs., c.l., works. 100 lbs.17.00 • 17.30
l.c.l., works.....100 lbs.17.80 • —
soln., clarif., 29° Be, 1:2.5, dms., c.l., works..100 lbs. 5.80 • —
l.c.l., 5 dms. or more works..100-lbs. 6.55 • 6.95
tanks, works ....100-lbs. 5.45 • —
electrical grade, 29° Be, 1:2.0 dms., c.l., works..100 lbs. 6.50 • —
l.c.l., 5 dms. or more, works..100 lbs. 7.25 • 7.65
tanks, works....100 lbs. 6.15 • —
40.5° Be, 1:2.1, dms., c.l., works..100 lbs. 6.45 • —
l.c.l., 5 dms. or more works..100 lbs. 7.20 • 7.60
Silicofluoride, bgs., works.....lb. .09½ • .10
Potassium silicofluoride in drums, 0.4c. per lb. higher.
Stannate, dms., frt. alld. E..lb. .736 • .802
Sulfate, agricultural, 50% K2O, bulk, works, base price, unit-ton. .64 • —
July forward..unit-ton. .67 • —
NF VII, cryst., dms.....lb. .31 • .33
gran., dms. .....lb. .18½ • —
powder. dms. .....lb. .16½ • .17
Sulfocyanate, NF, cryst., (see Potassium thiocyanate).
5-ton lots, works .....lb. .14½ • —
1-ton lot or less, works...lb. .14¾ • —
Thiocyanate, NF, cryst., dms..lb. .84 • .94
tech., works .....lb. .77 • .79
Titanate, ctns., c.l., works...lb. .14 • —
Toluene sulfonate, dms., c.l., or t.l., works..lb. .42 • —
l.c.l., works .....lb. .46 • —
Potassium-magnesium sulfate, bulk, works, basis 40% K2SO4, 18% MgO, base price..ton.13.45 • —
July forward.....ton.14.00 • —
Potassium-sodium tartrate, NF, gran. powd., dms., c.l..lb. .40½ • —
5,000-lb. lots .....lb. .41 • —
smaller lots.....lb. .41½ • .47
Potassium-titanium fluoride, fib. dms, works..lb. .39 • .40
Potassium-zirconium fluoride, fib. dms, c.l., works..lb. .50 • —
l.c.l., works .....lb. .52½ • .55
Pregnenolone, bots. .....gram. .45 • —
Acetate, bots. .....gram. .40 • —
Procaine hydrochloride, USP, dms., 1,000-lb. lots, frt. alld..lb. 2.83 • —
100-500-lb. lots.....lb. 2.95 • 3.13

STYRENE



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SHELL

Progesterone, USP, bots., 100 gram lots	gram	.50	—
Acetate, bots.	gram	.70	—
Propane, indust., tanks, group 3	gal.	.05	—
N. Y. Harbor	gal.	.09	—
l.c.l., dlvd.	lb.	.13¾-	—
tanks, dlvd.	lb.	.1075-	—
n-Propyl acetate, dms., c.l., dlvd	lb.	.12¾-	—
Gallate, dms., 100 to 2,000-lb. lots, works	lb.	3.90	4.40
p-Hydroxybenzoate, USP, dms	lb.	2.30	2.40
Propyl thiouracil, bots., 50-kilo lots or more	kilo.	55.00	—
smaller lots	kilo.	55.10	-55.30
Propy thiouracil prices in West 1c. higher dlvd., on same basis.			
Propylene dichloride, dms., c.l., dlvd. E	lb.	.09½-	—
l.c.l., same basis	lb.	.10½-	—
tanks, same basis	lb.	.07	—
Glycol, indust., dms., c.l., dlvd. E	lb.	.16	—
l.c.l., same basis	lb.	.17	—
tanks, same basis	lb.	.13½-	—
USP, dms., c.l., dlvd. E	lb.	.18	—
l.c.l., same basis	lb.	.19	—
tanks, same basis	lb.	.15½-	—
Methyl ether dms., c.l., dlvd	lb.	.20	—
l.c.l., same basis	lb.	.21	—
tanks, same basis	lb.	.18½-	—
Oxide, dms., c.l., dlvd. E	lb.	.17½-	—
l.c.l., dlvd. E	lb.	.18½-	—
tanks, dlvd. E	lb.	.15½-	—
Psyllium seed, black, bgs.	lb.	.55	—
blonde, bgs.	lb.	.18	—
husks, bgs.	lb.	.40	—
Pumice, dom., grd., coarse to fine, 0, ½, 1, 1½, 2, 3, bgs., ton lots	lb.	.03¾-	.04¼
smaller lots	lb.	.03⅞-	.04½
imp., Italian, silk-screen, coarse, bgs., ton lots	lb.	.06½-	—
fine, bgs., ton lots	lb.	.04	—
sun dried, coarse, bgs., ton lots	lb.	.02½-	.04
fine, bgs., ton lots	lb.	.02½-	.04
Pumpkin seed, bgs	lb.	.25	.26
Pyrethrin, syn. (see Allethrin).			
Pyrethrum flowers, fine grd., 0.9% pyrethrins, bbls., works	lb.	.45	—
powd., 1.3% pyrethrins, obls., works	lb.	.63	—
liq. 20/1 basis (2 grams pyrethrins per 100cc odorless base), dms. works	gal.	8.75	8.80
100/1 basis (10 grams pyrethrine per 100cc odorless base), dms., works	gal.	41.75	-42.75
oleoresin, dewaxed, 20%, dms., works	lb.	10.00	—
purif., 20% dms., works	lb.	10.00	-10.10
Pyridine, denaturing, dms., c.l., works and frt. equald	gal.	2.77	—
l.c.l., same basis	gal.	2.80	—
refd., 2nd non-ret dms., l.c.l., same basis	lb.	.75	—
Pyridoxine hydrochloride, bots., 100-gram lots	gram	.37½-	—
Pyrites, Canadian, works	long-ton	3.00	5.00
Pyrocatechol (see Catechol).			
Pyrogallol, NF, dms.	lb.	3.27	3.30
Pyroxylin, scrap, ungrd., amber, dms., works	lb.	.20	—
black, dms., works	lb.	.12	—
mixed, mottled dms., works	lb.	.13	—
shavings, amber, cs., works	lb.	No stocks.	
mixed colors, dms., works	lb.	.11	—
white, china, ivory, dms., works	lb.	.16	—
dense, opaque, dms., works.	lb.	.12	.15
translucent pastels, cs., works.	lb.	.14	—
colors, dms., works	lb.	.15	—
USP bots	lb.	9.50	—

Q

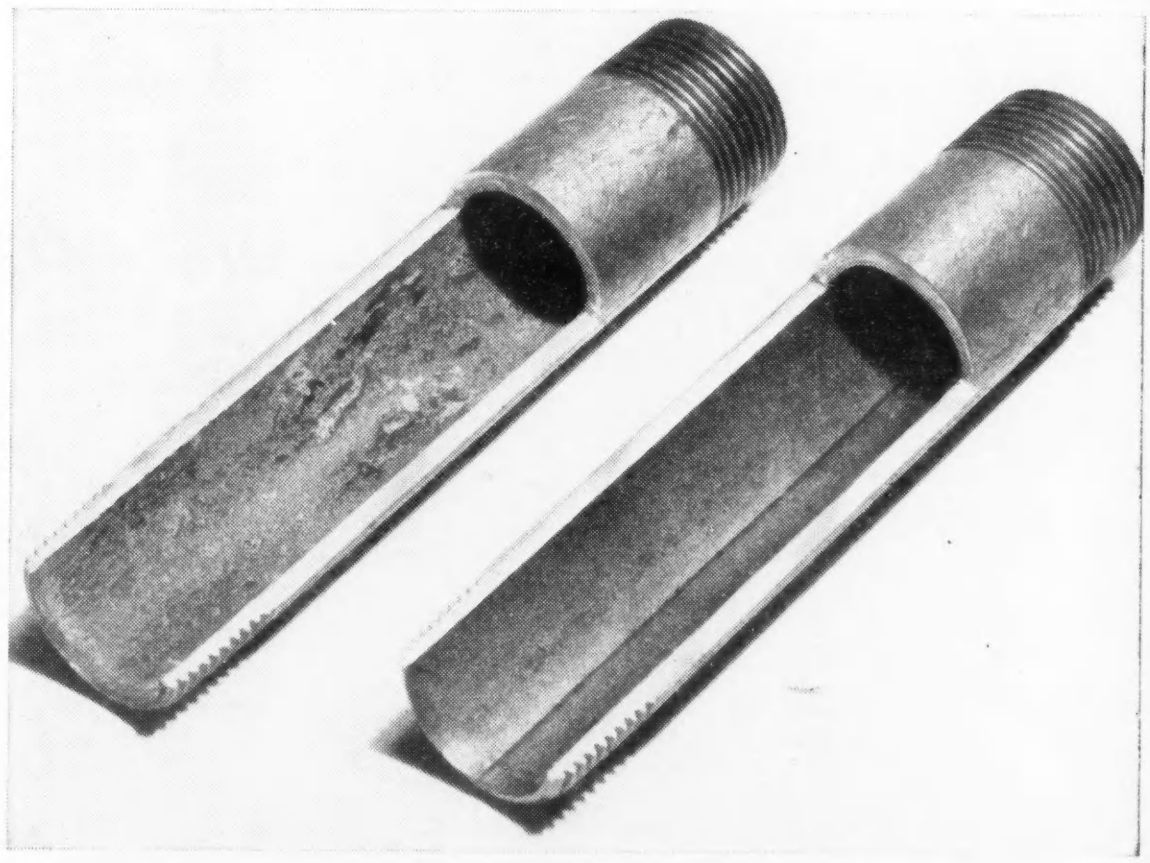
Quassia chips	lb.	.17	—
Quebracho extract, clarif., grd., 70% tannin, bgs., c.l.	lb.	.16½-	.16¾
liq., 35% tannin, bbls., works	lb.	.08¼-	.08½
solid., clarif., 64% tannin, bgs., c.l., exdock, duty extra	lb.	.12 23/64	
ord. 63% tannin, bgs., c.l., same basis	lb.	.11 21/32-	—
Quercitron extract, cryst., No. 1, bbls., l.c.l.	lb.	.40	—
liq., No. 1, bbls., l.c.l.	lb.	.19	—
Quicksilver (see Mercury metal).			
Quince seed, bgs	lb.	2.00	Nom.
Quinidine sulfate, USP, cns., 100-oz. lots	oz.	.73	.75
Quinine, NF, cns., 100-oz. lots	oz.	.54	—
Bisulfate, USP, cns., 100-oz. lots.	oz.	.37½-	—
Quinine ethylcarbonate, NF, cns., 100-oz. lots	oz.	.59	.63½
Hydrobromide, NF, cns., 50-oz. cns.	oz.	.40	—
Hydrochloride, cns., 100-oz. lots	oz.	.35	—
Sulfate, USP, cns., 100-oz. lots	oz.	.29	—
Quinoline, dms., c.l., frt. equald	lb.	.50¾-	—
l.c.l., same basis	lb.	.51¼-	—
tanks, same basis	lb.	.50	—

R

R salt, paste, dms., frt. alld., 100% basis	lb.	.88	—
powd., frt. alld., 100% basis	lb.	.98	—
Rauwolfia serpentina root, powd., bbls., dms	lb.	1.75	—
Red, BON acid maroons, pure, bbls.	lb.	1.75	—
resinated, bbls	lb.	1.50	—
arylid, deep shades, bbls.	lb.	3.60	—
light shades, bbls	lb.	2.75	—
maroon, bbls	lb.	3.60	5.90
Cadmium, CP, dark shade, bbls., frt. alld. E. of Rockies	lb.	4.30	—
light shade, bbls., same basis.	lb.	4.00	—
medium shade, bbls., same basis	lb.	4.23	—
medium light shade, bbls., same basis	lb.	4.03	—
orange shade, bbls., same basis.	lb.	3.93	—
orange red, bbls., same basis.	lb.	1.81	—
Selenide lithopone, maroon shade, bbls., same basis	lb.	3.77	—
dark, bbls., same basis.	lb.	3.90	—
red shade, dark, bbls., same basis	lb.	3.44	—
light, bbls., same basis.	lb.	2.24	2.32
medium, bbls., same basis	lb.	2.99	—
medium light, bbls., same basis	lb.	2.49	—
Mercury lithopone, dark shade, bbls., same basis	lb.	2.40	—
light shade, bbls., same basis.	lb.	1.93	—
medium shade, bbls., same basis	lb.	2.23	—
medium light shade, bbls., same basis	lb.	2.10	—
Red, carmine No. 40 (see Carmine).			
Dyes (see Dyes, coaltar).			
Eosin toner, bbls., works	lb.	1.65	—
Indian, dom., pure, bgs., Bethlehem, Easton, E. St. Louis, N. Y	lb.	.12¾-	—
Iron oxide, nat., 75-85% ferric oxide, bgs., l.c.l., Bethlehem, Pa., Copley, O., Easton, Pa., bgs., c.l., works	lb.	.0675-	—
Lake C toner, alizarine, bbls., works	lb.	1.13	—
rubine toner, pure, bbls., works.	lb.	1.50	—
resinated, bbls., works	lb.	1.40	—
Virginia type, bbls., works	lb.	1.40	—
Maroon toner, MNPT, kgs., c.l., works	lb.	3.60	—
10,000-lb. lots, works	lb.	4.22	—
smaller lots, works	lb.	4.24	—
Mercury oxide, tech., c.l., works.	lb.	5.77	—
Metallic, bbls., c.l., works	lb.	.02½-	—
l.c.l., works	lb.	.02¾-	—
Naphthol, ITR, bbls., works	lb.	5.25	—
Oxide (see Red iron oxide).			
Persian Gulf, bgs., c.l., works.	lb.	.07¾-	—
l.c.l., works	lb.	.08	—
Para toner, bbls	lb.	1.10	—
chlorinated, kgs	lb.	1.10	1.15
Phloxin toner (see Red eosin toner).			
Rhodamine, molybdated, PMA, kegs	lb.	5.35	5.60
tungstated, PTMA, works, kegs.	lb.	6.40	—
Spanish oxide, bbls., c.l., ex-dock.	lb.	.05¾-	—
l.c.l., ex dock	lb.	.06	—
ex whse., New York	lb.	.06½-	—
Toluidine toner, deep shades, kgs., works	lb.	1.62	1.65
light shades, kgs., works	lb.	1.62	1.65
Red, Turkey, bbls., works	lb.	.62	—
Tuscan, bbls., frt. equald	lb.	.26	.32
Venetian, jobbing, bgs., works.	lb.	.0475-	—
20%, bgs., works	lb.	.0525-	—
25%, bgs., works	lb.	.0575-	—
30%, bgs., works	lb.	.06	—
35%, bgs., works	lb.	.0625-	—
40%, bgs., works	lb.	.0675-	—
Watchung-type, bbls	lb.	1.95	—
Red KB base (see 4-Chloro-2-aminotoluene).			
Red, precipitate (see Mercuric oxide, red)			
Red saunders, NF, powd., bbls	lb.	.35	.40
Reserpine, cryst., bots	gram	3.75	—
Resorcinol, tech grade, dms., c.l., works, frt. equald	lb.	.77½-	—
l.c.l., same basis	lb.	.78½-	—
USP, dms., works	lb.	2.75	—
powd., dms., works	lb.	2.95	—
Monoacetate, NF, dms	lb.	3.00	3.25
Rhatany root, bgs	lb.	.15	16
Rhodinol, 5-lb. cans	lb.	32.00	-36.00
Rhubarb root, India, whole, bgs	lb.	1.75	Nom.
powd., bbls	lb.	2.50	Nom.
Riboflavin, USP, bots., dlvd	kilo.	65.00	—
readily soluble, bots., dlvd	kilo.	130.00	—
5'-phosphate-sodium, bots., 100-kilo lots or more	kilo.	125.00	—
Rochelle salt (see Potassium sodium tartrate).			
Rosin gum and wood (see Naval Stores in Protective Coatings market).			
Rotenone, fib. dms., works, unit-lb.		.12	—
resin, 25-45%, fib. dms., works, unit-lb.		.12	—
Rottenstone, bgs., 5-ton lots, ex-whse	lb.	.03	—
ton lots, same basis	lb.	.04	—
Rutin, NF, fib. dms., 25-kilo lots	kilo.	17 50	-18 50
10 to 25-kilo lots	kilo.	17 50	-20 00
1 to 10-kilo lots	kilo.	18 90	-20.00
Ryania, 100%, powd., bgs., c.l., works	lb.	.22	—
l.c.l., same basis	lb.	.24	—

S

Sabadilla seed, powd., bbls	lb.	49	.49¼
activated, ground with lime, bbls.	lb.	.30	.32
Saccharin, USP, cryst., soluble, dms., 1000-lb. lots	lb.	1.60	—
smaller lots	lb.	1.70	1.80
powd., soluble, insoluble, dms., 1,000-lb. lots	lb.	1.65	—
smaller lots	lb.	1.75	1.95
Calcium, fib dms., 1,000-lb. lots, works	lb.	2.50	—
Saffron, Spanish, USP, tins	lb.	45 00	—
Safrol, dms	lb.	.90	1.05
Sage, Cretan, bgs	lb.	.11	—
Dalmatian, bgs.	lb.	44	—
Italian	lb.	26	Nom.
Sago flour, raw, bgs	lb.	07	.07¼
refd., bgs	lb.	.08½-	.09
Sal soda (see Soda sal).			
Salicylamide, 100-lb. dms	lb.	1.00	—



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Solvay Sodium Nitrite works to halt or prevent corrosion by forming an invisible oxide coating on metal surfaces. It is effective with iron and steel and has been reported to suppress the degradation of aluminum, tin, monel, copper and brass. It is non-toxic in the concentrations normally used to prevent corrosion.

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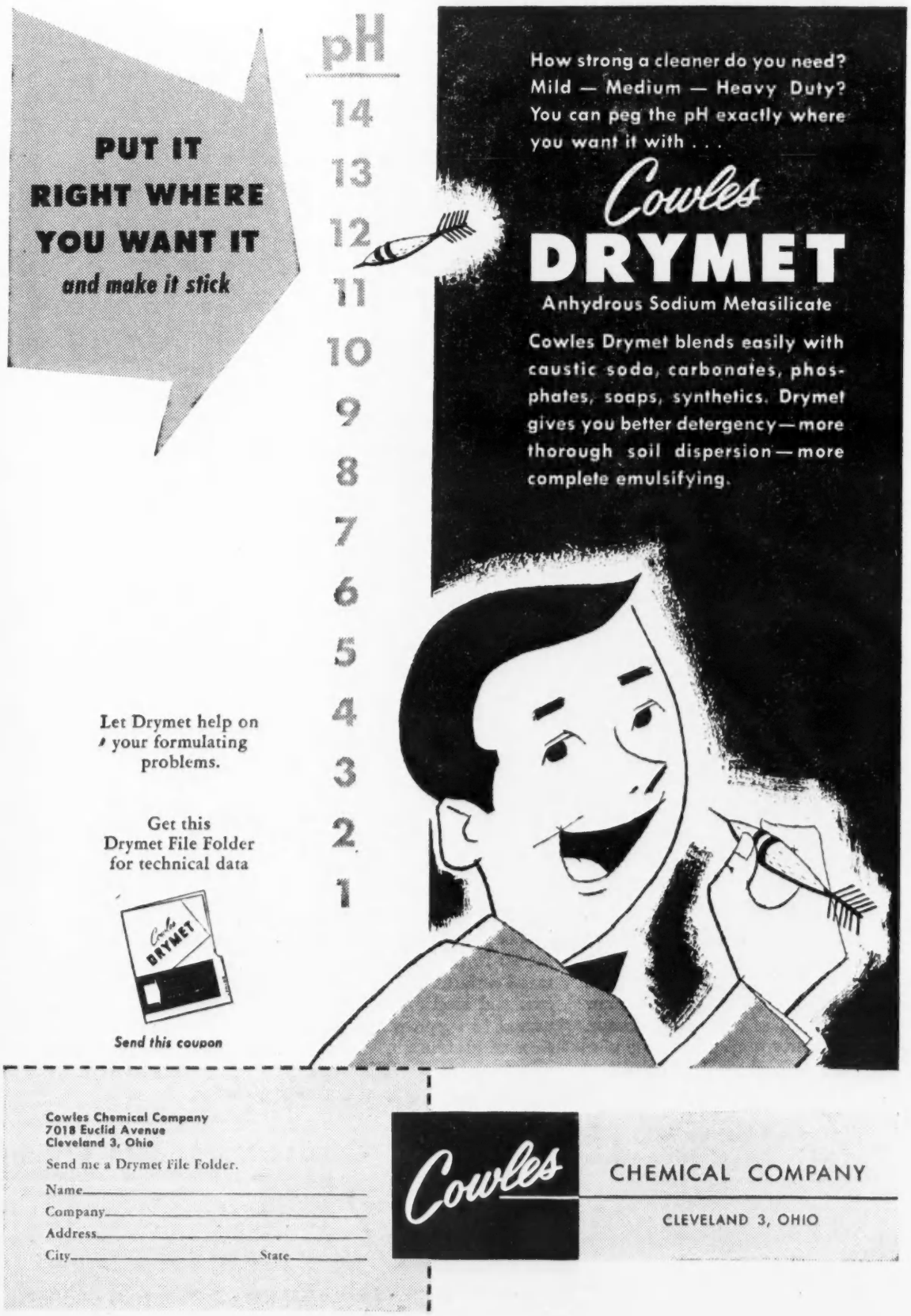
Monochlorobenzene • Carbon Tetrachloride • Chloroform • Methylene Chloride • Hydrogen Peroxide

Salol, NF, gran., bbls., kgs lb. 1.15 - —
Powdered salol, 25c higher
Salt, rock, paper bgs., c.l 100 lbs. 1.03½- —
table, vacuum common, fine, paper bgs., c.l 100 lbs. 1.27½- —
Saltcake, dom. bulk works, 100% Na2SO4 basis ton 28.00 —
Saltpeter (see Potassium nitrate).
Sandalwood, East Indies chips bgs .65 .66
powd. fib dms lb .75 .76
Schaeffer's salt, paste, dms., frt. alld 100% basis lb .95 —
powd bgs. frt alld. 100% basis lb .95 —
Scopolamine hydrobromide, USP bots oz. 12.00 -16.00
Seidlitz mixture, bbls. 5,000-lb. lots lb .30½ —
smaller lots lb .31 .32
Selenium, powd., 99½%, dms., dlvd. lb. 13.50 -15.50
Senega root, bls lb 3.10 —
Senna leaves, Alex., whole and half, bls lb. .19 - —
siftings lb. .17 - —
Tinnevelly, No. 1, bls lb. .16 - .18
No. 2, bls. lb. .13 - .15
No. 3, bls. lb. .11 - .13
powdered, bbls. bxs. lb. .13 - —
pods, bls. lb. .14 - —
Serpentaria, root, bls lb 5.50 - —
Sesame seed, Egyptian, hulled, bgs. lb. .19½- —
nat., bgs. lb. .17 - —
Nicaragua, hulled, shipt., bgs. lb. .26 - —
nat., bgs lb. .16½- —
Sesame seed, Salvadorian, natural, bgs lb. .17½- —
Indian, natural, bgs lb. .20½- —
Shellac, bleached, bonedry, bgs., 2,500-lb. lots lb. .56 - —
bbls., 1,500-lb. lots lb. .57 - —
kgs., 1,500-lb. lots lb. .58 - —
refd., bgs., 1,500-lb. lots lb. .66 - —
bbls., 1,500-lb. lots lb. .67 - —
kgs., 1,500-lb. lots lb. .68 - —
Bonedry shellac prices for less than 1,500 lb. lots 1c. per lb. higher for all packages.
Lemon No. 1, bgs., 10-bg. lots lb. .49 - —
No. 2, bgs., 10-bg. lots lb. .47 - —
Superfine, bgs., 10-bg. lots lb. .46 - —
Shellac in 1 to 10-bg. lots 1c. per lb. more.
Shingle stain oil (see Oil, shingle stain).
Silica, amorph., dry-grd., 325 mesh, bgs., c.l., works ton 25.00 —
l.c.l., works, exwhse ton 45.00 -55.00
hard-quartz, 99½%, 325 mesh, bgs., c.l., works ton 20.00 - —
l.c.l., works ton 25.00 -30.00
140 mesh, bgs., c.l., works ton 15.00 - —
l.c.l., works ton 20.00 - —
Silicon tetrachloride, tech., dms., c.l., works lb. .18 - —
l.c.l., works lb. .22 - .30½
tanks, works lb. .17 - —
Silver bullion, ingots, cs. Troy oz. .90¾- —
Cyanide, fib. dms., 2,500-oz. lots oz. .86⅜- —
1,000-oz. lots oz. .86¾- —
500-oz. lots oz. .86⅞- —
100-oz. lots oz. .87⅛- —
Silver nitrate, CP, cryst., bots., 2,500-oz. lots oz. .61⅛- —
1,000-oz. lots oz. .62⅜- —
500-oz lots oz. .62⅞- —
250-oz. lots oz. .63⅜- —
USP granular silver nitrate 4c. per oz higher.
Proteinate, mild, USP, bots., dms., 1,000-oz. lots oz. 1.05 - —
strong, NF, bots. dms. 1,000 oz. lots oz. 1.00 - —
Soapbark, whole, bls lb. .38 - .40
crushed, bls., bbls lb. .45 - —
powd., bbls. lb. .45 - —
Soda ash, dense, 58%, paper bgs., c.l. works 100 lbs. 1.80 - —
l.c.l., stock points 100 lbs. 2.90 - 4.67
bulk, c.l., works 100 lbs. 1.50 - —
light, 58%, paper bgs., c.l., works 100 lbs. 1.75 - —
l.c.l., stock points 100 lbs. 3.85 - 4.62
bulk, c.l., works 100 lbs. 1.45 - —
Soda, caustic, flake, 76%, dms., c.l., works, frt equald 100 lbs. 4.50 - —
l.c.l., stock points 100 lbs. 5.60 - —
liq., 50% sellers, tanks, works, dry basis 100 lbs. 2.80 - —
rayon type, sellers, tanks, works, dry basis 100 lbs. 2.80 - 2.90
70%, sellers' tanks, works, dry basis 100 lbs. 2.90 - —
rayon-type, sellers' tanks, works, dry basis 100 lbs. 2.90 - 3.00
solid, 76%, dms., c.l., works 100 lbs. 4.10 - —
l.c.l., stock points 100 lbs. 5.30 - —
Sal., conc., bgs., c.l., works 100 lbs. 2.30 - —
smaller lots, works 100 lbs. 2.60 - —
Sodium acetate, anhyd., bgs., c.l., works lb. .13 - —
dms., c.l., works lb. .13¾- —
NF, 60%, gran., dms., c.l., works lb. .14 - —
l.c.l., works lb. .15½- —
Alginate, NF, white powd., dms., ton lots, works lb. .87 - 1.30
refd., bbls., works lb. .83 - —
p-Aminobenzoate, dms., 1,000-lb. lots or more lb. 2.25 - —
smaller lots lb. 2.35 - 2.45
p-Aminosalicylate, dms., 100 lbs. or more, frt. adjusted lb. 2.70 - —
Antimoniate, bbls., c.l., dlvd. E. lb. .28 - —
l.c.l., dlvd. E lb. .29½- —
Arsenate, 45% arsenic pentoxide, dms., c.l., works lb. .12½- —
l.c.l., works lb. .13¾- .14½
Arsenite, 90%, pink powder, 75% arsenious oxide, dms., works lb. .12¼- —
l.c.l., works lb. .13 - .14½
soln., dms., works gal. .59 - .67
Ascorbate, dms., 25-50 kilo lots. kilo. 12.00 - —
10-kilo lots kilo. 12.35 - —
5-kilo lots kilo. 12.75 - —
1-kilo lots kilo. 13.00 - —
bots., 500-gram lots kilo. 13.50 - —
Benzoate, tech., bbls., dms., lots or more lb. .39 - —
USP, bbls., dms. 100-lb. lots, or more lb. 46 - —
Bicarbonate, USP, gran., bgs., c.l., works 100 lbs. 2.80 - —
l.c.l., works 100 lbs. 3.55 - —
powd., bgs., c.l., works, 100 lbs. 2.40 - —
l.c.l., works 100 lbs. 3.15 - —
Bichromate, bgs., c.l., works lb. .12¼- —
l.c.l., works lb. .12¾- .13¾
Bifluoride, bbls., c.l., works, frt. equaled lb. .18½- —
l.c.l., same basis lb. .1890- —
Bisulfate, bulk., c.l., works 100 lbs. 2.00 - —
dms., c.l., frt. equaid 100 lbs. 3.00 - 3.60
l.c.l., frt. equald 100 lbs. 3.50 - 4.10
Bisulfate, anhyd., bgs., c.l., works, 100 lbs. 4.50 - —
l.c.l., works 100 lbs. 4.90 - —
soln., 35° bbls., c.l., works, 100 lbs. 1.55 - —
l.c.l., works 100 lbs. 2.05 - —
Borate (see Borax).
Bromide, USP, bbls., works lb. .38 - —
Carboxymethyl cellulose (see CMC).
Carbonate, cryst., monohydrated (see Soda, sal).
monohydrated bgs., c.l., works 100 lbs. 3.00 - —
l.c.l., works 100 lbs. 3.40 - —
Chlorate, cryst., dms., c.l., works, lb. .09 - —
l.c.l., works lb. .10½- .11¼
Chloride, tech. (see Salt).
USP, bgs. lb. .05 - .12
Chlorite, tech., dms., c.l., works, lb. .58 - —
20-ton lots or more, works lb. .66 - —
smaller lots, works lb. .70 - .73
Chloroacetate, tech., dms., c.l., works lb. .27 - —
l.c.l., works lb. .28 - —
Chromate, dms., c.l., works lb. .13¼- —
l.c.l., same basis lb. .13¾- .15
Citrate, anhyd., dms lb. .62 - —
NF VIII, gran., dms lb. .26½- .27½
USP, XIV gran., dms lb. .29½- .30½
Sodium citrate, USP, powd. prices ½c. higher.
Cyanate, dms., 1,000-lb. lots, works lb. .85 - 1.10
smaller lots, works lb. 1.00 - 1.25
Cyanide flake, 96-98%, dms., c.l., or 20,000-lb. lots lb. .178 - —
over 1,000-lb. lots lb. .188 - —
100-lb. to 1,000-lb lots lb. .198 - —
Granular sodium cyanide 1c. higher.
Diacetate, 33-35% acidity, 250-lb. dms., works lb. .15 - —
l.c.l., works lb. .15¾- —
anhyd., dms., c.l., works lb. .18 - —
l.c.l., works lb. .18¾- —
Ferrocyanide, bgs., 10-ton lots lb. .13½- —
smaller lots. lb. .14 - —
Fluoride, white, 97%, fib. dms., c.l., works, frt. equald lb. .1390- —
l.c.l., works lb. .1430- —
Formate, bgs., c.l., works 100 lbs. 7.60 - —
l.c.l., works 100 lbs. 8.65 - —
Gentisate, 100-lb. fib. dms lb. 8.50 - —
Gluconate, refd., dms. lb. .80 - .83
tech, dms. lb. .35 - —
Glutamate, mono., dms., c.l lb. 1.20 - —
Hydride, dms., works lb. 1.80 - 3.00
Hydrosulfide (see Sodium sulfhydrate).
Hydrosulfite, dms., c.l., frt. alld. lb. .24 - —
l.c.l., frt. alld. lb. .24½- —
Hydroxide, NF, pellets, 100-lb. dms., 1 to 100-dm. lots lb. .18½- .23
technical (see Soda, Caustic).
Hydrophosphite, NF, dms., ton-lots or less lb. .95 - .98
Hyposulfite, NF (see Sodium thiosulfate).
pea crystals, bgs. 100-lbs. 4.50 - —
gran., bgs., c.l., works 100 lbs. 4.75 - 5.00
photo grade, bgs., c.l., works, 100 lbs. 4.50 - 4.75
l.c.l., works 100 lbs. 5.00 - 5.05
tech., bgs., c.l., works 100 lbs. 4.50 - —
l.c.l., works 100 lbs. 4.90 - —
Sodium hyposulfite crystals in bbls., 50c. higher.
Iodide, USP, bots., dms. lb. 2.55 - 2.62
Lactate, edible, 50%, cbys., dms., works lb. .21½- —
60% cbys., dms. works lb. .26½- —
tech., 50%, cbys., dms., works lb. .16½- —
Lauryl sulfate, dms., c.l., dlvd lb. .21 - —
l.c.l., dlvd lb. .22 - —
tanks, dlvd lb. .18½- —
Metabisulfite (see Sodium bisulfite).
Metaborate, octahydrate, gran., bgs., c.l., works ton 85.00 - —
l.c.l., ex whse ton 135.50 -140.50
Sodium metaborate octahydrate in bbls, $24.50 per ton higher.
Metaborate tetrahydrate, dms., c.l., works ton 204.00 - —
Metallic bricks, 14,000-lb. lots or more, works lb. .17 - .19
less than 14,000-lb. lots, works, lb. .175 - .195
tanks, works lb. .16 - —
Metanilate, bbls., frt. alld lb. .62 - —
Metasilicate, anhyd., bgs., c.l., works 100 lbs. 5.35 - —
l.c.l., works 100 lbs. 5.70 - 7.65
dms., c.l 100 lbs. 5.85 - —
l.c.l. 100 lbs. 6.20 - 8.10
Pentahydrate, bgs., c.l., works. 100 lbs. 4.25 - —
l.c.l., works 100 lbs. 4.60 - 6.50
dms., c.l., works 100 lbs. 4.75 - —
l.c.l., works 100 lbs. 5.10 - 7.00
Molybdate, anhyd., dms., dlvd lb. .88 - —
cryst., dms., works lb. .69 - .73



Sodium monohydrate (see Sodium carbonate monohydrated),
Naphthionate, bbls.....lb. .70 • —
Nitrate, crude, dom., bgs., c.l., works..ton.47.00 • —
bulk, c.l., works.....ton.45.50 • —
imp., 100-lb. bgs., c.l., Atl. Gulf, Pac., whse....ton.51.25 • —
bulk, c.l., same basis..ton.47.75 • —
Nitrite, USP, bbls., c.l., works, frt. equald..100 lbs. 8.50 • —
l.c.l., same basis....100 lbs.10.50 • —
Orthosilicate, conc., dms., c.l., works..100 lbs. 6.30 • —
l.c.l., orks.....100 lbs. 6.65 - 7.25
hydrated, flake, bbls., c.l., works 100 lbs. 5.40 • —
l.c.l., works .....100 lbs. 7.50 - 7.65
Oxalate, 88% bgs., works..100 lbs.10.85 • —
Para-aminobenzoate (see Sodium p-Aminobenzoate).
Para-aminosalicylate (see Sodium p-Aminosalicylate).
Pentachlorophenate, briquets, bgs., c.l., works, frt. equald..lb. .26 • —
l.c.l., same basis.....lb. .27½- .34
pellets, bgs., c.l., same basis. lb. .26 • —
l.c.l., same basis.....lb. .27½- .34
powd., bgs., dms., c.l., same basis..lb. .25 • —
l.c.l., same basis.....lb. .26½- .33
Sodium pentachlorophenate, 20,000 lbs., min. truckloads, ¼c. per lb. over carlot prices.
Perborate, NF, tech., bgs., c.l., works..lb. .173 • —
l.c.l., works .....lb. .178 • —
Peroxide, dms., c.l., dlvd. E. of Miss..lb. .1860- —
l.c.l. same basis.....lb. .1910- .1960
Phenolsulfonate, USP IX, gran., dms. lb. .44 • .45
Phosphate, dibasic, anhyd., bgs., c.l., frt. equald..100 lbs. 7.65 • —
l.c.l., works .....100 lbs. 8.05 • —
USP dried powd. bgs., dms., works. lb. .19 • .20½
monobasic anhyd., bgs., c.l., frt. equald..100 lbs. 8.70 • —
l.c.l., frt. equald..100 lbs. 9.10 - 9.70
duohydrate, bgs., c.l., frt. equald..100 lbs. 7.20 • —
l.c.l., frt. equald..100 lbs. 7.60 - 8.20
tribasic, anhyd., bgs., c.l., frt. equald..100 lbs. 8.00 • —
l.c.l., frt. equald..100 lbs. 9.05 - 9.65
cryst., bgs., c.l., t.l., frt. equald..100 lbs. 4.40 • —
l.c.l., frt. equald..100 lbs. 4.80 - 5.40
Sodium phosphates in dms., 60c. higher than bgs.
Prussiate, yellow (see sodium ferrocyanide).
Pyrophosphate, acid, bgs., c.l., works, frt. equald..100 lb.10.85 • —
l.c.l., works .....100 lbs.11.60 -11.85
ferric, dms., c.l., t.l., works, lb .36 • —
l.c.l., works .....lb. .37 • .39
tetrabasic, anhyd., bgs., c.l., works, frt. equald..100 lbs. 7.52½- —
l.c.l., frt. equald....100 lbs. 7.92½- 8.52½
Salicylate, USP, dms.....lb. .74 • .76
Sesquicarbonate, bgs., c.l., works, 100 lbs. 2.25 • —
l.c.l., dlvd., zone 1....100 lbs. 4.00 - 4.25
zone 2.....100 lbs. 4.25 - 4.50
zone 3.....100 lbs. 4.65 - 4.80
zone 4.....100 lbs. 5.25 - 6.50
Sales zones are: (1) Atl. States E. of Miss. R. and N. of south bound of Ky. and Va.; Ala., La., and Miss., south of 31° Tex. E. of 100°; S. of 31° Fla.; also Me., N. H. and Vt., in which there are special county zones: Davenport, Ia., and St. Louis; (2) Ark. E. of 98° Ga.; Iowa (except Davenport), Minn., Mo. (except St. Louis), Neb., E. of 98° N. C. S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala., La. and Miss. No. of 31°; (3) Ark. W. of 96°, Kan. Neb. W. of 98°; N. D., Okla., S. D., Tex., W. of 100° (including Wichita Falls, excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo. and El Paso, Tex.
Sesquisilicate, hydrated, bgs., c.l., works..100 lbs. 4.80 • —
l.c.l., works.....100 lbs. 5.15 • —
dms., c.l., works..100 lbs. 5.30 • —
l.c.l., works .....100 lbs. 5.65 • —
Silicate, liq., 40° Be, 1:3.2, turbid, dms., c.l., works..100 lbs. 1.45 • —
l.c.l., works...100 lbs. 1.80 - 2.30
tanks, works ...100 lbs. 1.10 • —
47° Be, turbid, 1:2.9, dms., c.l., works.....100 lbs. 2.10 • —
l.c.l., works.....100 lbs. 2.70 - 2.95
tanks, works.....100 lbs. 1.75 • —
52° Be, turbid, 1:2.4, dms., c.l., works..100 lbs. 2.45 • —
l.c.l., works....100 lbs. 2.80 - 3.30
tanks, works...100 lbs. 2.10 • —
solid, 1:3.2, bgs., works...ton.62.50 • —
Silicofluoride, bgs., c.l., works..lb. .075 • —
l.c.l., works .....lb. .079 • —
Sodium silicofluoride in dms., 0.4c per lb. higher.
Stannate, dms., works, frt. alld. E..lb. .611 - .665
Sulfa drugs (see Sulfa name).
Sulfanilate, bbls., works .....lb. .22 • —
Sulfate, NF, VII, dried, powd., dms lb. .22½- —
tech., anhyd., bgs., c.l., dlvd. E ton.52.00 • —
detergent, rayon grade, bgs., c.l., works..ton.34.00 • —
bulk, c.l., works..ton.31.00 • —
USP, cryst., fib. dms.....lb. .17½- .13
gran., fib. dms .....lb. .17½- .18
Sulfhydrate, flake, 70-72%, dms., c.l., works lb. .06½- —
l.c.l., works .....lb. .07½- —
liq., 40-44%, tanks, works, 100% basis ton.115.00 • —
Sulfide, flake, dms., c.l., works, E., frt. equald. lb. .05¼- —
l.c.l., same basis .....lb. .06¼- —
fused, bbls., c.l., works E., frt. equald lb. .04¾- —
l.c.l., same basis .....lb. .05¼- —
Sulfite, anhyd., bgs., c.l..100 lbs. 3.25 • —
l.c.l., same basis....100 lbs. 3.75 • —
Sulfocyanide, CP (see Sodium thiocyanate).
Tetraborate (see Borax).
Tetrasulfide, liq., 40%, dms., c.l., works..lb. .03½- —
l.c.l., works .....lb. .04½- —
Thiocyanate, CP, dms .....lb. .55 • .65
tech., anhyd., dms., 1 ton lots or more, works lb. .317 • —
less than ton lots, works. lb. .337 • —
Thiosulfate, NF, cryst., bbls ..lb. .12½- —
tech. (see Sodium hyposulphite).
Titanate, ctns., c.l., works.....lb. .10½- —
5-ton lots, works .....lb. .10¾- —
1-ton or less, works.....lb. .11 • —
Toluene sulfonate, dms., c.l., or t.l. lb. .38 • —
l.c.l. lb. .42 • —
Trichloroacetate, 90%, 100-lb. dms., c.l., frt. alld. E..lb. .37½- —
l.c.l., frt. adjusted, E lb. .39½- —
50 lb. dms., c.l., frt. alld E. lb. .38 • —
l.c.l., frt. adjusted E... lb. .40 • —

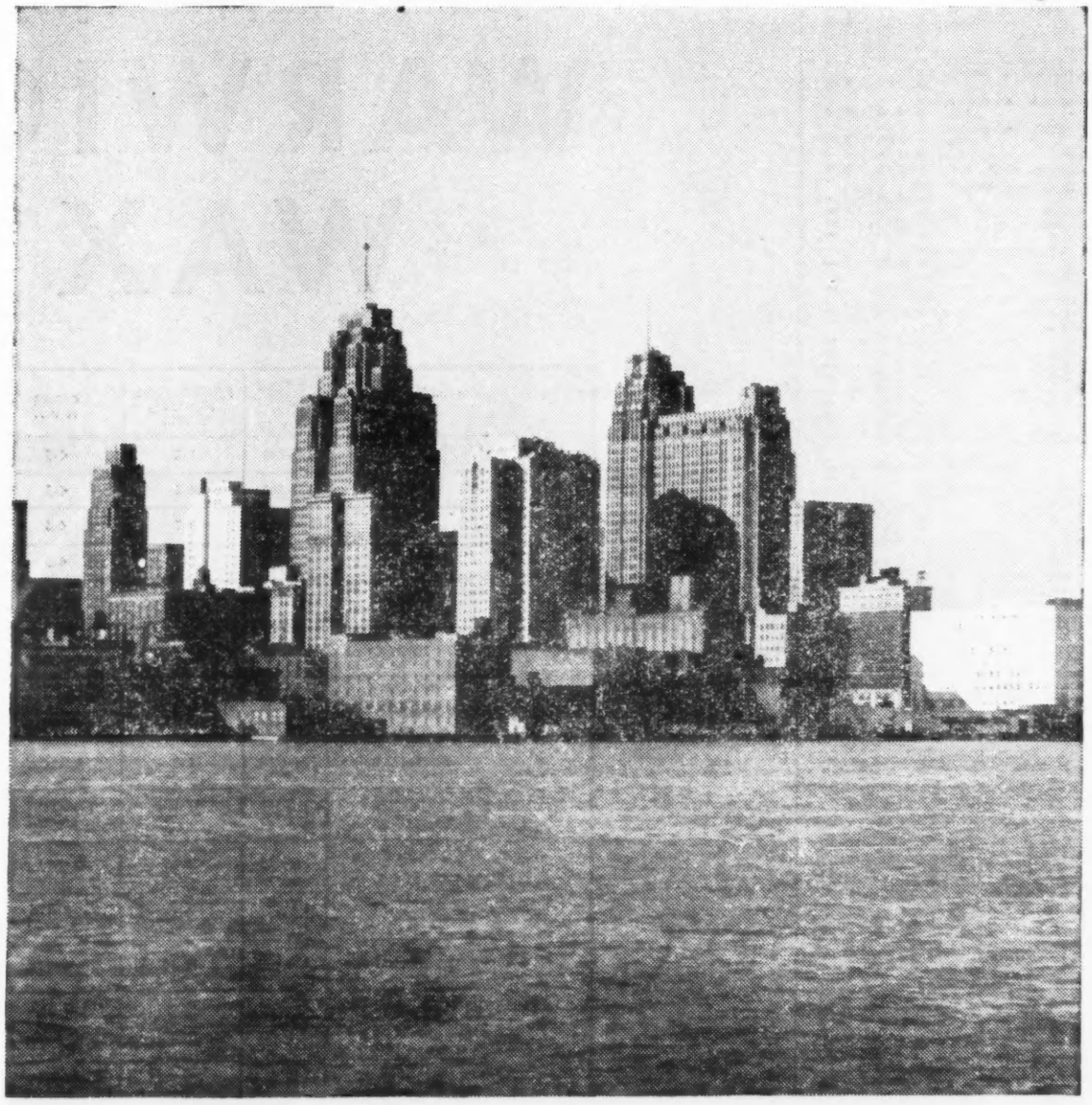
Sodium trichloroacetate, 90% 10-lb. cns., c.l., frt. alld E..lb. .44 • —
l.c.l., frt. adjusted E.....lb. .46 • —
Prices on Sodium trichloroacetate W. of the Rockies are 1¾c. per pound higher.
Tripolyphosphate, bgs., c.l., works, frt. equald..100 lbs. 7.87½- —
l.c.l., same basis .....100 lbs. 8.27½- 8.87½
Trisilicate, powd., 1:3.2, bgs., c.l., works..100 lbs. 8.65 • —
l.c.l., works .....100 lbs. 9.40 - 9.80
dms., c.l., works.....100 lbs. 9.05 • —
l.c.l., works .....100 lbs. 9.80 -10.40
Tungstate, tech., kgs., dlvd. E..lb. 2.15 • —
Sodium-ammonium phosphate, bbls., works, frt. equald..lb. .23 • —
Sodium-carboxymethyl cellulose (see CMC).
Sodium-cinchophen (see Cinchophen-sodium).
Sodium-formaldehyde sulfoxylate, dms., c.l., dlvd..lb. .21 • —
l.c.l., same basis .....lb. .21½- —
Sodium-zirconyl sulfate, fiber dms., 1,000-lb lots or more works lb. .28 • —
smaller lots, same basis. lb. .30 • —
Solvent naphtha, coaltar, high flash, tanks, frt. equald. gal. .31 • .32
petroleum (see Petroleum solvent, partial aromatic).
Sorbitan monostearate, fib. dms., 20,000-lb. lots, works lb. .32 • —
10,000 to 20,000-lb. lots, works. lb. .34 • —
smaller lots, works .....lb. .37 • .39
Tristearate, fib. dms., 20,000-lb. lots, works lb. .23 • —
10,000 to 20,000-lb. lots, works. lb. .35 • —
smaller lots, works.....lb. .38 • .40

Sorbitol, cryst., resin grade, pellets, dms., c.l., works lb. .23 • —
1 to 5-ton lots, works.lb. .25 • .26
powd., dms., 1 to 5-ton lots, works lb. .38 • .39
soln., coml., aqueous, dms., c.l., works lb. .24¼- —
ton lots, works .... lb. .25 • —
smaller lots, works....lb. .25¼- —
tanks, works .....lb. .23¼- —
reg. 70% aqueous, dms., c.l., works lb. .16 • —
ton lots, works .... lb. .16¾- —
smaller lots, works lb. .17 • —
tanks, works .....lb. .15 • —
Soybean meal, 44%, bulk, Decatur, ton.48.00 • —
protein, chemically isolated, bgs., c.l., works lb. .23 • —
mechanically refd., bgs., l.c.l., works lb. .066 • —
Sparteine sulfate, cns .....oz. .80 • .85
Spearmint leaves, dom., bls .....lb. 75 • —
Spruce extract, Lq., reg. tanks, works lb. .01¾- —
powd., super, bgs., c.l., works lb. .05¼- —
l.c.l., works .....lb. .05½- —
Squill, white, bls .....lb. .16 • .18
powd., bbls., bxs .....lb. .17 • .20
St. John's bread, edible, bls ..lb. .13 • .15
Stannic chloride, anhyd., dms., works lb. .828 • .838
Oxide, dms., dlvd. E .....lb. 1.06½- 1.07½

Stannous chloride, anhyd., dms., works lb. .964 - 1.23
hydrous, cryst., dms., works.lb. .84 - .85
Sulfate, dms., works .....lb.1.016 - 1.036
Starch, corn, pearl, paper bgs., c.l., 100-lbs. 7.27 • —
l.c.l. .....100 lbs. 7.42 • —
powd., paper bgs., c.l. ..100 lbs. 7.39 • —
l.c.l. .....100 lbs. 7.44 • —
Prices for corn starch in cotton bags, 15c. per 100 lbs. higher.
Potato, dom., Idaho, bgs., c.l., works lb. .06¼ • —
Maine, bgs., c.l., works..lb. .07¼ Nom.
ex whse, N. Y .....lb. .08¾ .10
Rice, bgs., l.c.l. .....lb. 15½ 16
Wheat, bgs .....lb. .08½- .09
Star root (see Helonias root).
Stargrass Root (see Aletris root).
Stavesacre seed, bgs .....lb. .60 • .61
Stearine oleo (see Oleostearine).
Stramonium leaves, bgs. .....lb. .18 • .20
Streptomycin hydrochloride, bulk, gram. .07 • .074
Strontium bromide, NF, cns., dms. lb. .80 - 1.05
Carbonate, pure, dms., 5-ton lots or more, works lb. .35 • —
1-ton lots, works .....lb. .37 • —
tech., dms., works .....lb. .19 • —
Chromate, bbls., works.....lb. .46 • —
Iodide, pars, 25-lb. lots.....lb. 3.32 • —
Nitrate, bbls., c.l., works 100 lbs.11.00 • —
l.c.l., works .....100 lbs.12.00 • —
Salicylate, NF, dms .....lb. 1.78 • —
Sulfate, air floated, 90%, 325 mesh, bgs., works .ton.56.70 -66.15

Detroit . . . where Dow caustic serves alkali compounders.

DOW



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Strophanthin, K., bots. ..... oz. 25.00 -25.50
G. (see Ouabain, USP).
Strophanthus seed, Kombi, biologically tested, bgs. lb. 3.50 - 3.75
Strychnine, NF, powd., cns., 100-oz. lots oz. 1.10 - —
Phosphate, NF, cns., 100-oz. lots. oz. 1.14 - —
Sulfate, USP, cryst., cns., 25-oz. lots oz. .96 - —
powd., 100-oz. lots ..... oz. .85 - —
Styrax, USP. ex ..... lb. .78 - .80
Styrene monomer, polymer grade, 99½%, dms., c.l., frt. alld. lb. .22½- —
l.c.l., same basis ..... lb. .23½- —
tanks, same basis ..... lb. .21½- —
synthetic rubber grade, 99%, dms., c.l., frt. alld. lb. .18 - —
l.c.l., same basis ..... lb. .19½- —
tanks, same basis ..... lb. .16 - —
Styrolyl acetate, bots ..... lb. 1.45 1.70
Sucrose, crude, bgs., divd., N. Y. lb. .0555- —
refd., white, bgs., refy., E ..... lb. .0855- —
Octa-acetate, denaturing grade, 100-200-lbs., bgs., l.c.l., works lb. .76 - —
Sugar (see Sucrose, crude, refined).
Sulfabenzamide, dms ..... lb. 4.00 - 4.50
Sodium, dms ..... lb. 4.10 - 4.60
Sulfacetamide, fib. dms ..... lb. 4.00 - 4.20
Sodium fib. dms ..... lb. 5.00 - 5.20
Sulfadiazine, USP, microcrystals, dms lb. 10.60 -11.10
powd., dms ..... lb. 10.25 -10.75
Sulfadiazine-sodium, USP, dms lb. 11.25 -11.75
microcrystals, dms ..... lb. 11.60 -12.10
Sulfaguanidine USP dms ..... lb. 2.50 —
Sulfamerazine, USP, microcrystals. lb. 10.65 -11.15
Sulfamerazine-sodium, USP, dms., lb. 11.25 -11.75
Sulfamethazine, microcrystals, dms., lb. 8.90 - 9.40
powd., dms ..... lb. 8.50 - 9.00
Sulfanilamide, USP, 30-80 mesh., dms lb. 1.40 - 1.60
microcrystals, dms ..... lb. 1.70 - 1.90
powd., dms ..... lb. 1.30 - 1.50
Quinoxaline, veterinary, dms lb. 6.40 - 6.75
Sulfapyridine, NF powd. bots. tins, lb. 7.00 7.50
Sulfapyridine-sodium, monohydrate, dms lb. 7.50 8.00
Sulfathiazole, USP, microcrystals, dms lb. 2.85 - 3.00
powd., dms ..... lb. 2.50 - 2.65
Sulfathiazole-sodium, USP, dms lb. 2.75 - 2.90
Sulfur, coml. flour bgs., mines 100 lbs. 2.30 - —
bbls., mines ..... 100 lbs. 3.05 - —
lump, bgs., mines ..... 100 lbs. 2.20 - —
bbls., mines ..... 100 lbs. 2.65 - —
crude, bulk, c.l., mines, contract, long-ton. 26.50 - —
export, f.o.b vessels, Gulf ports long-ton. 28.00 - —
domestic and Canada, f.o.b vessel Gulf port long-ton. 28.00 - —
refd., flowers, USP, bgs., mines 100 lbs. 4.00 - —
bbls. 100 lbs. 5.25 - —
flour, light bgs., mines 100 lbs. 3.60 - —
bbls., mines ..... 100 lbs. 4.50 - —
lump, bgs., mines ..... 100 lbs. 3.30 - —
rolls, bgs., mines ..... 100 lbs. 3.85 - —
bbls., mines ..... 100 lbs. 4.40 - —
salt block, bgs. mines 100 lbs. 3.50 - —
virgin block, bbls., mines. 100 lbs. 3.45 - —
rubbermakers, coml., reg., bgs., mines 100 lbs. 2.40 - —
bbls., mines ..... 100 lbs. 3.55 - —
98-100% passing through 325 mesh, bgs., mines 100 lbs. 2.50 - —
bbls., mines ..... 100 lbs. 3.65 - —
refd., bgs., mines ..... 100 lbs. 3.25 - —
bbls. mines ..... 100 lbs. 4.30 - —
treated, 2.5% mineral oil, bgs., mines 100 lbs. 2.70 - —
bbls., mines 100 lbs. 3.85 - —
10% pine tar, bgs., mines. 100 lbs. 3.90 - —
Dichloride, dms., c.l., works, frt. equald lb. .04 - —
l.c.l. same basis ..... lb. .04¾- —
tanks, same basis ..... lb. .03¾- —
Dioxide, liq., coml., cyls., works, frt. equald lb. .10 - .12
multi unit cars, works lb. .0535- —
tanks, works ..... lb. .045 - —
refrigeration, 150-lb. cyls., dlvd. lb. .30 - —
Monochloride, 55-gal. dms., c.l., frt. equald lb. .04 - —
l.c.l., same basis ..... lb. .04¾- —
tanks, same basis ..... lb. .03¾- —
Sumac leaves, 28% tannin, bgs., ex-dock ton. 126.00 -128.00
ground, bgs., ex-dock ..... ton. 122.00 -124.00
Superphosphate, run-of-pile, under 22% a.p.a. pulv., bulk, c.l., Balto., unit-ton. .88 - .91
Carteret, N. J. unit-ton. .88 - .91
triple, 48% or more, a.p.a., pulv., bulk, c.l., East Tampa, Fla. unit-ton. .98 - —

T

2,4,5-T, dms., c.l., works, frt. equald. lb. 1.18 - —
l.c.l., same basis ..... lb. 1.25 - —
Isopropyl ester, dms., c.l., works, frt. equald lb. 1.24 - —
l.c.l., works ..... lb. 1.29 - —
Talc, dom., ord., Calif., grd., bgs., c.l., works ton. 33.00 -39.50
Vermont off color grd., bgs., c.l., works ton. 19.40 - —
l.c.l., works ..... ton. 37.00 - —
fibrous, New York, grd., bgs., c.l., works ton. 28.00 - —
l.c.l., works ..... ton. 31.00 -36.00
99.5%, 325 mesh, bgs., c.l., works ton. 31.00 - —
l.c.l., works ..... ton. 34.00 - —
99.95% micronized, bgs., works ton. 38.00 - —
imp., Canadian, grd., bgs., c.l., mines ton. 20.00 25.00
Tallow, edible, tanks, dlvd. ..... lb. .10⅛- —
indelible, extra, tanks, dlvd. lb. .07⅛- .07¼
fancy, bleachable, tanks, dlvd., lb. .07⅜- —
guaranteed, dms., f.a.s. lb. .08⅛- —
No. 1, tanks, dlvd. ..... lb. .06⅝- —
special tanks, dlvd. ..... lb. .06¾- —
sulfonated, 25%, bots., l.c.l. lb. .08¾- .09
50%, bbls., l.c.l. ..... lb. .09¾- .10¼
Tankage, animal, feeding, 9-11% ammonia, bulk unit-ton. 4.75 - —
Chicago, bulk unit-ton. 5.50 - —
Tapioca flour, Brazilian bgs., ex whse. lb. .09¾- .10¼
Siamese, medium, bgs., ex whse. lb. .06¼- .06½
Tar acid oil, 15-28%, dms., c.l., frt. equald gal. .47 - .49
l.c.l., same basis ..... gal. .50 - .51
tanks, same basis ..... gal. .39 - —
Tar acid oil, 25-28%, dms., c.l., same basis gal. .54 - .56
l.c.l., same basis ..... gal. .57 - .58
tanks, same basis ..... gal. .46 - —
50-53%, dms., c.l., same basis. gal. .70 - .72½
l.c.l., same basis ..... gal. .73½- .74½
tanks, same basis ..... gal. .62½- —
Coal (see Coaltar).
Tartar, emetic (see Antimony-potassium tartarate).
Terpine glycol ether, dms., c.l., works lb. .23½- —
l.c.l., works ..... lb. .25½- —
tanks, works ..... lb. .22 - —
Hydrate, NF, cryst., powd., fib. dms lb. .67½- .74
Terpinol, dms., l.c.l., dlvd E lb. .23¾- —
extra, dms ..... lb. .41 - .60
prime, dms ..... lb. .30 - .45
Terpinyl acetate, extra, cns., dms. lb. .60 - .75
prime, dms ..... lb. .55 - .70
Propionate, dms ..... lb. 1.75 - 4.00
Terra alba (see Gypsum).
Testosterone, USP, 100-gm. lots, bots gram. .70 - —
Propionate, USP, 100-gm. lots, bots gram. .68 - —
Tetrachloroethane, dms., works lb. .14½- —
Tetrasodium pyrophosphate (see Sodium pyrophosphate).
Tetrachloroethylene, tech (see Perchloroethylene).
USP 55 gal. dms., works ..... lb. .20½- .21½
smaller dms., works ..... lb. .23½- .25
Tetraethyl orthosilicate, dms., c.l., dlvd. E. lb. .61½- —
l.c.l., dlvd. E ..... lb. .62½- —
Pyrophosphate, 40%, cns., dms., frt. equald. lb. .75 - —
Tetraethylenepentamine, dms., c.l., dlvd. E. lb. .49 - —
l.c.l., dlvd. E ..... lb. .50 - —
tanks, dlvd. E ..... lb. .47 - —
Tetrahydrofuran, dms., c.l., or t.l., works lb. .36½- —
l.c.l., or l.t.l., works ..... lb. .37 - —
tanks, works ..... lb. .35 - —
Tetrapotassium phosphate (see Potassium phosphate).
Thallium metal, dlvd ..... lb. 12.50 -15.00
Sulfate, 99%, bots., dlvd ..... lb. 8.00 -13.00
Theobromine, NF, fib. dms ..... lb. 3.25 - —
And sodium acetate, USP, fib. dms. lb. 4.00 - —
Sodio-Salicylate, NF, fib. dms. lb. 3.30 - —
Theophylline, anyhd. or USP, 100-lb. dms lb. 3.65 - —
Thiamine hydrochloride, USP, regular, fib. dms. kilo. 60.00 - —
ampule grade, fib. dms. kilo. 62.00 - —
Mononitrate, USP, fib. dms. kilo. 62.00 - —
Thiocarbanilide, dms., ton lots. lb. .72 - —
less tons lots ..... lb. .74 - —
Thiodiphenylamine (see Phenothiazine).
Thiourea, tech., bgs., t.l., frt. alld. lb. .33 - —
l.c.l., frt. alld ..... lb. .35 - —
Thorium nitrate, purif., fib. dms., 100-lb. lots or more, works lb. 3.50 - —
dl-Threonine, bots., 1-kilo lots. kilo. 450.00 -500.00
Thymol, fib. dms ..... lb. 2.50 - 2.75
Iodide, NF, dms. ..... lb. 7.30 - —
Timbo root (see Cube root)
Tin chloride (see Stannous chloride, anhydrous).
crystals (see Stannous chloride, hydrous).
Oxide (see Stannic oxide).
Metal (Straits) ..... lb. 1.08 - —
Sulfate (see Stannous sulfate).
Tetrachloride anhyd., (see Stannic chloride, anhydrous).
Titanium dioxide anatase, chalk-resistant, bgs., c.l., dlvd. lb. .24½- —
l.c.l., dlvd. ..... lb. .25½- —
ceramic, bgs., c.l., dlvd. ..... lb. .22½- —
l.c.l., dlvd. ..... lb. .23½- —
reg., bgs., c.l., dlvd. ..... lb. .22½- —
l.c.l., dlvd. ..... lb. .23½- —
metallurgical, nat., gran., bgs., c.l., f.o.b. Jacksonville, Fla. ton. 120.00 - —
Niagara Falls, N. Y., c.l., ton. 137.50 - —
5-ton lots ..... ton. 142.50 - —
ton lots ..... ton. 147.50 - —
rutile nonchalking, bgs., c.l., dlvd. E. lb. .26½- —
l.c.l., dlvd. E. ..... lb. .27½- —
Milled titanium dioxide, $7.50 per ton higher.
Hydride, cns., works ..... lb. 7.95 - 9.00
Pigment, calcium-rutile base, reg., bgs., c.l., dlvd. ..... lb. .09¼- —
l.c.l., works ..... lb. .09¾- —
high-tinting, dms., c.l. ..... lb. .09 - —
l.c.l. ..... lb. .09½- —
Tetrachloride, tech., dms., c.l., works lb. .40¾- —
l.c.l., works ..... lb. .43¾- —
tanks, works ..... lb. .39¾- —
dl-a-Tocopherol, bots. ..... kilo. 149.65 - —
Acetate ..... kilo. 136.00 - —
Acetate ..... kilo. 185.00 - —
Acid succinate ..... kilo. 165.00 - —

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WARWICK WAX

Warwick Waxes—waxes of proved performance—offer you the broadest selection in the wax field. Whatever your product or your problem—for technical help on formulations, for samples, for technical data, our wax chemists are at your service. Write or phone Warwick today... ask for our 1957 price and distributor list. Prompt delivery. Stock and service centers in 33 principal cities.

NAME OF WAX	MELTING POINT ASTM D-127-30	PENETRATION 100G/77°/ 5 SEC.	COLOR N P A	ACID NUMBER	SAPONIFICATION VALUE	TYPE
CARDIS ONE (U.S. PAT. NO. 2471102)	195-200	1-2	4-9	12-16	55-65	EMULSIFIABLE PETROLEUM WAX
CARDIS * 314	184-189	4-6	4-9	13-16	45-55	EMULSIFIABLE PETROLEUM WAX
CARDIS * 319	180-185	5-7	4-6	18-20	65-70	EMULSIFIABLE PETROLEUM WAX
CARDIS * 320	180-185	5-7	4-9	28-30	75-80	EMULSIFIABLE PETROLEUM WAX
CARDIS * 262	195-200	3-5	BROWN	14-17	40-45	SPECIALLY PROCESSED PETROLEUM WAX
FORTEX *	190-200	3-5	2½-3½	0.0	0.0	MICRO-CRYSTALLINE HARD AND PLASTIC
MEKON * B-20 A-20 Y-20	190-195 190-195 190-195	3-5 3-5 3-5	BROWN-BLACK AMBER-6 MAX. YELLOW-3-3½	0.0	0.0	MICRO-CRYSTALLINE HARD AND BRITTLE
POLYMEKON**	200-MIN.	0-3	YELLOW	0.0	0.0	SPECIALLY PROCESSED PETROLEUM WAX
WARCO * WAX 150-A	145-155 145-155	15-20 15-20	YELLOW 1-2 BROWN	0.0	0.0	MICRO-CRYSTALLINE PLASTIC
WARCO * WAX 170-A	170-175	10-15	YELLOW 1-2	0.0	0.0	MICRO-CRYSTALLINE PLASTIC
WARCO * WAX 180	180-185 180-185	4-7 4-7	WHITE BROWN	0.0	0.0	MICRO-CRYSTALLINE HARD AND BRITTLE
WARCOSINE *	150-155	15-20	WHITE	0.0	0.0	MICRO-CRYSTALLINE PLASTIC
PARAFFIN	136-138 ASTM		FULLY REFINED			CRYSTALLINE
CANE WAX 700	169-174	1.0-1.5	BROWN	25-30	70-90	VEGETABLE WAX
CANE WAX 500	171-176	3 MAX.	LIGHT BROWN	25-35	55-70	VEGETABLE WAX
CANE WAX 517-711	170-175	2 MAX.	BLACK	—	—	VEGETABLE WAX

*®
**Patent Applied For.

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Midwest Office: 6556 S. Melvina Avenue, Chicago 38, Illinois

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o-Tolidine, base, paste, kgs., 100% basis lb. 1.35 - —
dry, kgs., 100% basis lb. 1.40 - —
Hydrochloride, paste, kgs., 100% basis lb. 1.35 - —
Tolu balsam, cns lb. 4.25 - 4.50
Toluene (see Toluol).
p-Toluenesulfonamide, powd., dms., works lb. .70 - —
m-Toluidine, dms., c.l., works, frt. alld lb. .79 - —
l.c.l., same basis lb. .80 - —
tanks same basis lb. .78 - —
o-Toluidine, dms., c.l., works, frt. alld lb. .23 - —
l.c.l., same basis lb. .24 - —
tanks, same basis lb. .22 - —
p-Toluidine, flake, dms., frt. alld lb. .64 - —
solid. dms., frt. alld lb. .60 - .61
Toluol, coaltar, indust or nitration, tanks, works:—
Bethlehem, Pa gal. .32 - —
Birmingham dist gal. .32 - —
Chicago, dist gal. .32 - —
Cleveland dist gal. .32 - —
Geneva, Utah gal. .26 - —
Johnstown, Pa gal. .32 - —
Lackawanna, N. Y. gal. .32 - —
Lone Star, Tex gal. .33 - —
Lorain, Ohio gal. .32 - —
Middletown, Ohio gal. .33½ - —
Minnequa, Colo. gal. .32 - —
Philadelphia dist gal. .32 - —
Pittsburgh dist gal. .32 - —
Sparrows Point, Md gal. .32 - —
Terre Haute, Ind gal. .35 - —
Youngstown, Ohio gal. .32 - —
petroleum, indust., 2°, tanks, works:—Albany, N. Y. gal. .35 - —
Bayonne, N. J gal. .34 - —
Baytown, Tex. gal. .33 - —
Chicago, Ill. gal. .35 - —
Detroit, Mich gal. .35 - —

Toluol, petroleum, indust., 2°, tanks, works:—
Houston, Tex gal. .33 - —
Philadelphia, Pa gal. .34 - —
Providence, R. I. gal. .35 - —
Wood River, Ill. gal. .25 - —
2,4-Tolylenediamine, cryst., fib. dms., c.l., frt. alld lb. .97 - —
l.c.l., frt. alld lb. 1.00 - —
powd., fib. dms., same basis lb. 1.04 - —
Tonka beans, Angostura, cks lb. 1.65 - 1.80
Brazilian, Surinam, cs lb. 1.00 - 1.25
Totaquine 100-oz. lots, cns oz. .42 - —
Toxaphene, dms., c.l., t.l., works lb. .21 - —
l.c.l., l.t.l., works lb. .27 - —
Triacetin, dms., c.l., dlvd. E. of Rockies lb. .39 - —
l.c.l., same basis lb. .40 - —
tanks, same basis lb. .37 - —
Tributyl citrate tech., non-ret. dms., c.l., frt. alld E of Denver lb. .42½ - —
l.c.l., frt. alld E of Denver. lb. .43½ - —
tanks, frt. alld E of Denver. lb. .40 - —
Phosphate, dms., c.l., works lb. .52½ - —
l.c.l., same basis lb. .53½ - —
tanks, same basis lb. .50 - —
Tributylamine, dms., c.l., works lb. .67½ - —
l.c.l., same basis lb. .68½ - —
tanks, same basis lb. .65 - —
Trichlorobenzene, dms., c.l., frt. alld. E lb. .14½ - —
l.c.l. frt alld E lb. .15½ - —
tanks, frt. alld. E lb. .13 - —
Prices in the West 1¾c higher.
Trichloroethylene, dms., c.l., or t.l., works, frt. equald lb. .12½ - —
l.c.l., dlvd. E. lb. .14½ - —
tanks, works, frt. equald lb. .11¼ - —

1,1,1-Trichloroethane, dms., c.l., works lb. .13½ - —
l.c.l., works lb. .14¼ - .16¼
tanks, works lb. .11½ - .12½
Tricholine citrate, 65% soln., ret. chys. works, frt adjusted lb 1.40 - 1.45
Tricresyl phosphate, coaltar, dms., c.l., dlvd lb. .37 - —
l.c.l., dlvd lb. .38 - —
tanks, dlvd lb. .34½ - —
petroleum, dms., c.l., dlvd lb. .36½ - —
l.c.l., dlvd. lb. .37½ - —
tanks, dlvd. lb. .34½ - —
Triethanolamine, dms., c.l., dlvd. E lb. .24½ - —
l.c.l., same basis lb. .25½ - —
tanks, same basis lb. .22 - —
Triethylamine, dms., c.l., works, dlvd E lb. .49 - —
tanks, same basis lb. .46½ - —
Triethyl citrate, refd., tech., non-ret. dms., c.l., frt. alld. E. of Denver lb. .45¾ - —
l.c.l. frt. alld. E. of Denver, lb. .46¾ - —
tanks frt. alld. E. of Denver, lb. .43¾ - —
Phosphate, dms., c.l., dlvd lb. .40½ - —
l.c.l., dlvd lb. .41½ - —
tanks, same basis lb. .38 - —
Triethylene glycol, dms., c.l., dlvd. E lb. .21 - —
l.c.l., same basis lb. .22 - —
tanks, same baris lb. .18½ - —

Triethylenetetramine, dms., c.l., dlvd. E lb. .51½ - —
l.c.l., dlvd. E. lb. .52½ - —
tanks, dlvd. E. lb. .49 - —
Tri-isopropanolamine, dms., c.l., dlvd. E lb. .23¼ - —
l.c.l., dlvd. E. lb. .24¼ - —
tanks, dlvd. E lb. .20¾ - —
Trimethylamine 25-40% soln., dms., c.l., works, frt equald., 100% basis lb 42 - —
l.c.l., works, frt equald, 100% basis lb .42½ - —
tanks, works, frt equald, 100% basis lb .33 - —
Trioxane pure, dms., c.l., t.l., dlvd. E lb. .50 - —
l.c.l., dlvd. E. lb. .51½ - —
Tripentaerythritol, bgs., l.c.l., works, lb. .35 - —
Triphenyl phosphate, bbls., c.l., frt. equald lb. .40 - —
l.c.l., frt. equald lb. .41 - —
Triphenylguanidine, bbls., works lb. .80 - —
Tripropylene glycol, dms., c.l., frt. alld E lb. .20½ - —
l.c.l., frt. alld. E lb. .21½ - —
Tripropylene glycol prices 1c. per lb. higher in West.
Phosphate (see Sodium phosphate tribasic).
Tyrothricin, USP, bots gram. .73 - .85
dl-Tryptophane, fib. ctns., works. kilo.165.00 - —
Tungsten metal powd., 2-5 microns, dms., works lb. 4.85 - —
Turpentine, gum (see Protective Coatings market, Naval Stores).

U

Unicorn root, false (see Helonias root). True (see Aletris root).
Urea, 46% N, indust., bgs., c.l., t.l., dlvd. E ton.120.00 - —
l.c.l. dlvd. E, ex whse ton.140.00 - —
45% N, agricultural, bgs., c.l., (30 tons), dlvd., E ton.105.00 - —
Urea-ammonia liquor, A and B grades N basis, tankcars, Belle, W. Va ton.126.00 - —
Urea-ammonia, liquor, C grade, tankcars, same basis ton.124.50 - —
37 grade tankcars, same basis, ton.153.00 - —
Urethane, USP, dms. lb. 1.45 - —
Uva-ursi leaves, bls lb. .12 - .14

V

Valerian root, Belgian, bgs lb. .32 - —
dl-Valine, dms., works lb.21.00 - 27.50
Valonia beards, 40-42% tannin, bgs., ex dock ton.80.00 - —
cups, 28-30% tannin, bgs., ex-dock ton.58.00 - —
extract, powd., 63% tannin, bgs., exdock, duty extra lb. .09 - —
Vanadium pentoxide, tech., dms., works lb 1.28 - 1.33
Vanilla beans, Bourbon, tins lb. 9.00 - 9.50
Mexican, cuts, tins lb. 8.50 - 9.00
whole, tins lb. 9.25 - 9.75
Tahiti, cs lb. 7.00 - —
Vanillin ex eugenol, tins, 25-lb. lots lb 6.50 - 6.75
smaller lots lb 6.90 - 7.25
ex lignin, dms., 100-lb. lots lb. 2.75 - —
smaller lots lb. 2.80 - 2.85
Vinyl acetate monomer, 55-gal. dms., c.l., dlvd. E lb. .19 - —
l.c.l., dlvd. E. lb. .20 - —
tankcars, dlvd. E lb. .16½ - —
tanktrucks, less than 4,000 gal., dlvd. E lb. .17½ - —
n-Butyl ether, tech., dms., c.l., works lb. .28 - —
l.c.l., works lb. .30 - —
tanks, works lb. .27 - —
Chloride monomer, tanks, works lb. .11 - .12
Ether, USP, anesthesia, bots., 50 c.c., hospitals bot. 1.12 - —
75 c.c. bot. 1.56 - —
tech., dms., c.l., works lb. .26 - —
l.c.l., works lb. .28 - —
tanks, works lb. .25 - —
Isobutyl ether, tech., dms., c.l., works lb. .28 - —
l.c.l. works lb. .30 - —
tanks works lb. .27 - —
Methyl ether, cyls., works lb. .23 - —
tanks, works lb. .20 - —

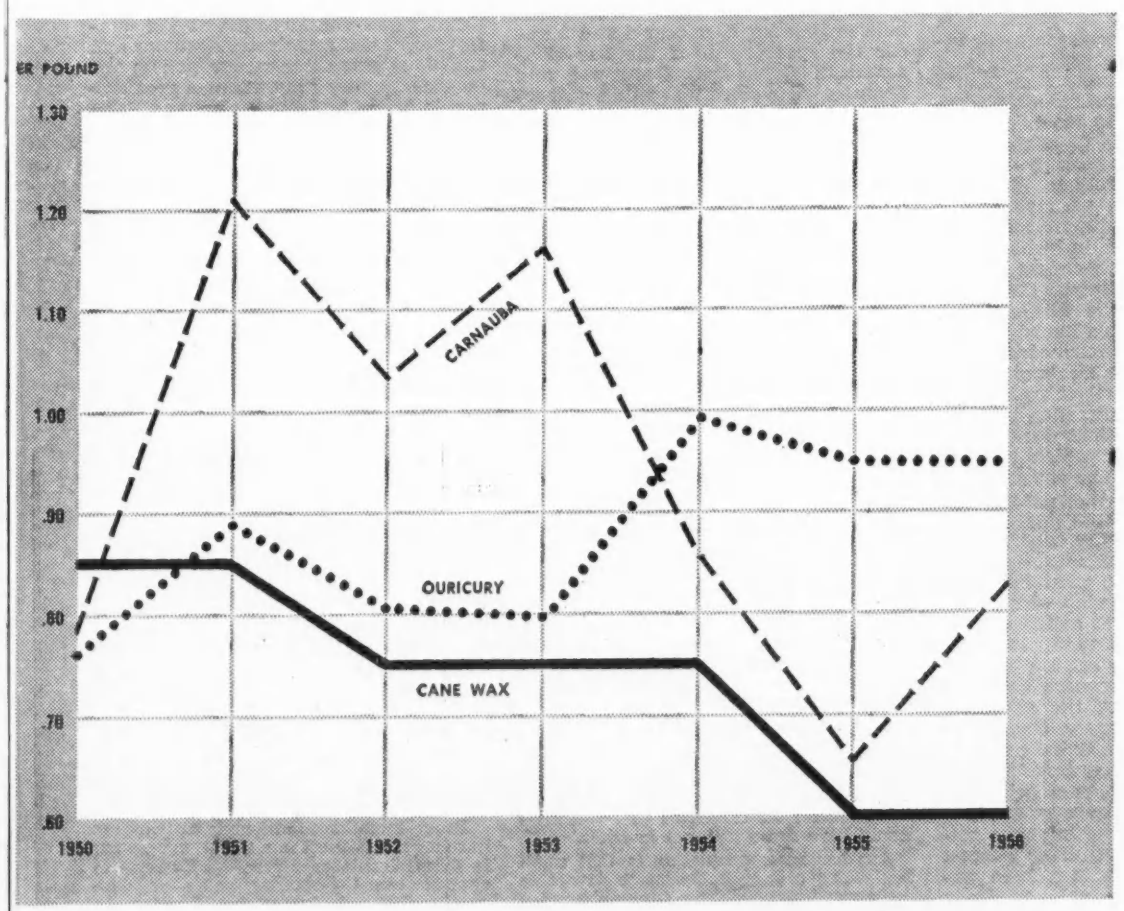
Cylinders are sold outright, or if shipped against deposit, a free perio., of 60 days is allowed; and if empties are returned prepaid and in good condition within that period, full refund is made.

Propionate monomer, dms., c.l., dlvd lb. .49 - —
l.c.l., same basis lb. .50 - —
tanks, same basis lb. .47 - —
Trichloride (see Trichloroethane).
2-Vinylpyridine, 10 dms. to tanks, works lb. 1.36 - —
1 to 9 dms., works lb. 1.50 - —
tanks, works lb. 1.33 - —
Vinyltoluene, dms., c.l., frt. alld lb. .18½ - —
l.c.l., frt. alld. lb. .19½ - —
tanks, frt. alld. lb. .16 - —
Viosterol in nat. vegetable oil, 400,000 to 1,000,000 D units per gram, bots., lots of 10 billion USP units 1,000,000 units. .02 - .04¼
lots of 1 billion USP units, 1,000,000 units. .025 - .05¼
lots of less than 1 billion USP units, 1,000,000 units. .03 - .05¼
Vitamin A acetate, syn. crystalline, beads 500,000 A units per gram gram .07¼ - —
dry, 500,000 units per gram, kilo lots kilo.67.50 - —
325,000 units per gram, same basis kilo.43.88 - —
250,000 units per gram, same basis kilo.33.75 - —

Dry vitamin A acetate in less than kilo lots, $2.50 per kilo higher in all potencies.

liq., in oil, 1,000,000 A units per gram 1,000,000 units. .10 - —
Palmitate liq., 1,000,000-1,800,000 A units per gram 1,000,000 units. .10 - —
in oil, 1,000,000 A units per gram 1,000,000 units. .10 - —
B_1 (see Thiamine hydrochloride).
B_2 (see Riboflavin).
B_c complex natural (see Rice bran concentrate and Yeast).

—Continued on page 74



The Truth About Wax Prices!

chart gives you a clear picture of the steady, depend- price structure of Cane Wax compared to the wide tuation of Carnauba and Ouricury which can create n serious buying problems. And that's not all, the ld's largest group of wax scientists has recently devel- d cane waxes that offer users completely new oppor- ties for economy and standards of quality in their ducts. WARWICK WAX COMPANY offers you com- e technical information and expert laboratory assist- e in implementing these new waxes in your formulations.

CANE WAX—

1. **THE ONLY VEGETABLE WAX** not subject to severe price fluctuation.
2. **THE ONLY VEGETABLE WAX** always free of adulteration.
3. **THE ONLY VEGETABLE WAX** produced with laboratory controlled uniformity.
4. **THE ONLY VEGETABLE WAX** produced domestically.
5. **THE ONLY VEGETABLE WAX** available for same day or overnight delivery no matter where you are.

FOR FURTHER INFORMATION, SAMPLES AND DATA, WRITE . . .

diary of Sun Chemical Corporation

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Midwest Office: 6556 S. Melvina Avenue, Chicago 38, Illinois

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Farm Problem Calls for Self-Help

It has already become clearly evident in the recently "officialized" national quadrennial prospecting for votes that the other major politicomic area of operations—farm—is going to be gone over with a fine-toothed comb—and a lavishness of promissory allurements. It is not to be expected, however, that anything will come out of the promising on either side which will, or even could, make any helpful contribution toward the solution of any such problem as why the farmer has not shared equitably in the 25 percent increase in family spending for food between 1948 and 1955. In fact, it is not at all likely that there will be even an approach in the direction of the why of the farmer's not getting a share of even the 6.5 percent increase in retail food prices over that period.

It is doubtful that any mention whatsoever will be made of the Department of Agriculture data which are directed toward an explanation of why food spending increased so much more than food prices, or of what the Secretary of Agriculture said at the dedication of the walnut growers' new processing plant in commending that group for "improving marketing methods, keeping up with changing desires of consumers, and maintaining an attitude of self-help."

The facts in those cases do not in the least agree with the claims or charges on which the would-be constructors of a national farm policy base their appeals that the job be entrusted to them. Those facts make it clear that the farm problem cannot be solved with political devices.

For the same reason, there will be no reference by the prospectors — even those in his crew—to President Eisenhower's advice that "cooperation is the means by which free men solve their problems or tackle jobs too big for the individual."

It goes without saying that there will be no vote-hunting by means of impartial analysis or appraisal of what has been done for farmers on the sorrowful marketing side of their endeavors during the ten years of the federal research and marketing act out of which somehow has come a Commodity Credit Corporation investment of $8,257,303,000 in farm products which had not been marketed up to June 30, this year, and a net loss of $974,767,365 on the price-support operations during the fiscal year ended at that date, which alone could have paid for the construction of at least a few schoolhouses and several miles of really capacious highway.

"Self-help" has no objective place in the vocabulary of politicomic prospectors. "Cooperation," in their terminology, means "You vote jobs for us, and we'll vote pay for you."

Distributors of food products are beginning to get worried about farm prices. But, they blame the farmer's income problem on overproduction and underefficiency. The real reason is that the farmer is separated from the consumer of his products by too many steps up which prices have to climb. He should develop—cooperatively—a method of more direct selling. He must engage in processing, packaging, and delivering by means of more and more cooperative operations in research on changing desires of consumers and in performances that will meet them satisfactorily. Cooperation with existing and potential consuming industries can be helpful if it is approached and applied with an adequate measure of mutual understanding and responsibility. The program in that direction recently inaugurated by President Eisenhower provides opportunities which are not yet getting anything like the developmental attention that they deserve.

Self-help is the farmer's biggest need. It must be applied to the cultivation—including cropping—of markets in a manner comparable to what has been done over the past decade with relation to production fields. It calls for original thinking and initiative. It might just now be stretching originality a bit too far to say that there may be places in regions affected by the shrinking popularity of cotton where it would be useful to know that Cuba exported $510,993 worth of frozen frogs' legs to the United States last year or to get detailed information on the growing interest of medical science in snake poisons. Certainly there are many farmers and many more consumers of farm products who would be able to learn something useful from the Conference on Economic Progress treatise on "Full Prosperity for Agriculture," which presents a trio of goals for farm policy, which make it clear that the farmer's problem is everybody's concern. And that is useful knowledge which must be complemented by universal recognition that its solution is primarily and mainly his own job, in which, it has been clearly demonstrated, he is far more hampered and harmed than he is helped by political pampering.

Studies in US Foreign Policies

Influenced, no doubt, in some degree by campaign and congressional criticisms, President Eisenhower has set up a committee of citizen advisers in the controversial, somewhat confused, and continually changing area of the US foreign "economic" policy. It is headed by a business executive of long and successful experience. The work of the group will have to do largely with foreign aid programs and practices. It is scheduled to report to the congress early in the next session.

The extent to which the work of this advisory group will cover the same ground as that of the senate subcommittee on investigation of aid practices under the mutual security program will depend on several factors deriving in large part from the attitudes of the respective probers with reference to the relative values of aid and trade in both directions of foreign relations. The weight in the congressional group is somewhat on the trade side and is becoming more so. It is too early even to surmise which view will prevail among the advisory citizens, because there is a growing trend toward the trade side in business organizations.

It is obvious that one of the biggest reasons for both investigations is the much talk having to do with the more or less hazy objective of Russia's much publicized shift to "economic" cold warring. In that connection it should be clear to the open-minded observer that something somewhere is in need of substantial consideration and clarification when Indonesia, boasting of its immense wealth in undeveloped natural resources, and at the same time dealing with a Russian aid mission, declares through a spokesman for its dickerers that the Russians "want to give us everything, unlike the Americans."

That is one of the reasons why there will be much of interest in the discussion in November by the American Assembly under a Ford Foundation grant of $85,000 of United States polices in the Far East. Another contributor in that direction will be turning up under the question of how long Japan will continue to be the biggest foreign buyer of soybeans from the United States if it is to be obliged by variously applied pressures of one sort or another to refrain in more or less degree from accepting its opportunities to sell textiles in this country.

So it is that every business leader in the United States, whatsoever the area of his interest in foreign relations or his views on the relative values of aid or trade therein, should arrange—by attendance if possible—to get full factual information out of the ninth annual Far East conference which will be held in New York October 4 and 5 under the sponsorship of the Far East-American Council of Commerce and Industry. The objective of that gathering will be to promote trade between the United States and the Far East—a relationship which now involves close to $2,000,000,000 a year in each direction. It is expected that the conference will be attended by at least 250 Asian and twice that number of American business and government leaders. It also is of interest in that direction that a twelve-man Japanese atomic energy team is on a tour of installations in this country and the director-general of the Japanese defense agency is touring United States military installations as the guest of the Department of Defense.

One facet of foreign economic relations lacks due consideration in those programs. The desirable and satisfactory cultivation and improvement of the foreign economic relations of this country, especially with the nations of the Far East, call for commercial underwriting more than they do for political underpinning. But, the biggest need is for social understanding. Economic equilibrium, to be stable, must have three "legs" on which to stand—one, political; one, commercial; and one, social. And the more closely the three "legs" are alike in length and in strength, the greater is the stability of the equilibrium and the permanence of the structure as a whole.

It is earnestly to be hoped—and promoted—that the social "leg" will not be disregarded by the President's group of citizen advisers; that it will get more than casual consideration at the conference of the American Assembly; and that it is given due recognition in the construction by congress of a real economic policy in foreign relations. Useful testimony of its importance could—and should—be got from those who have participated from either side in the exchange of students and those who have had a part in the Experiment in International Living.

Washington Talks It Over

Administration Expects to Present Important Tax Changes To Next Session of Congress Helping Small Business.

By Ralph L. Cherry
Chief, OPD Washington Bureau

When the question of taxes comes before congress next session—which is a certainty—the Administration expects to come forth with some rather important changes in the law for the benefit of firms with small incomes. A cabinet committee, which has been working on the question since last spring has decided on at least four major recommendations, and others may be made later.

One of the proposals is a reduction in taxes on business corporations from 30 percent to 20 percent on the first $25,000 of taxable income. This will be of great help to small businesses in being able to retain money for expansion that otherwise would have to be paid out in taxes.

Another recommendation is that small businesses can have the same favorable accelerated depreciation formula applied to used equipment that was made available to purchasers of new property by the 1954 tax revision act. Also corporations with 10 or fewer stockholders are to be given the option of being taxed as if they were partnerships.

One that is believed will have a tremendous impact would give to the taxpayer the option of paying an estate tax over a period of up to 10 years in cases where the estate consists largely of investments in closely held business concerns.

The present necessity for paying heavy estate taxes leads to a disruption in the management, control and operation of many small businesses, and is a contributing cause of numerous mergers. This would allow an orderly change in management over a long period without the necessity for liquidation to meet the estate taxes.

Government's Allocation Headache

Business and Defense Services Administration reports that the number of requests being received by it for assistance in getting supplies of materials in short supply are on the increase.

Requests from contractors having military orders for priority assistance in the form of directives have increased 65 percent in the past year.

Unless the request for aid is from a contractor of the Atomic Energy Commission, the Department of Defense or some other directly related defense supporting activity, there is very little that the agency can do. The defense production act limits the agency's authority to give priority assistance only to the direct defense contracts.

The probabilities that the situation will lead to demands for broadening the law next year. It will be recalled that there was some support for putting nickel under distribution control last session and now the talk is being extended to include some steel products. A half-dozen or more congressional committees currently are looking into the materials supply situation from one angle or another.

Drugs: FDA Versus Pennsylvania

Drug manufacturers and distributors have a keen interest in a situation brewing in Pennsylvania over the state's efforts to control over-the-counter sales of dangerous drugs, including barbiturates.

A state law places all such drugs on the prescription-only list, but authorizes the Department of Health to grant exceptions in certain instances.

A fight has developed between manufacturers and the pharmacists over the proper treatment of asthma remedies—chiefly barbiturates compounded with other drugs to counteract the hypnotic effect.

The federal law regards these drugs as safe for use and requires that they be sold over-the-counter, but the Pennsylvania pharmacists insist that they must be kept out of grocery stores and the like and restricted to pharmacist supervision.

The issue being drawn is one of whether federal law or state action is to prevail in matters of this kind. The manufacturers insist that since the federal Food and Drug Administration has said that the drugs are safe they must be sold over-the-counter.

Their point is that once the federal government has entered a field of regulation, state actions must conform and support this argument by reference to the supreme court decision in the Nelson sedition case.

The outcome will be watched because it may have a strong bearing on what other states may do in similar situations. An interesting sidelight to the Pennsylvania situation is that the Pennsylvania pharmacists appear to be running counter to the model state barbiturate law drawn up by the National Drug Trade Conference and supported by the pharmacists' own national organization.

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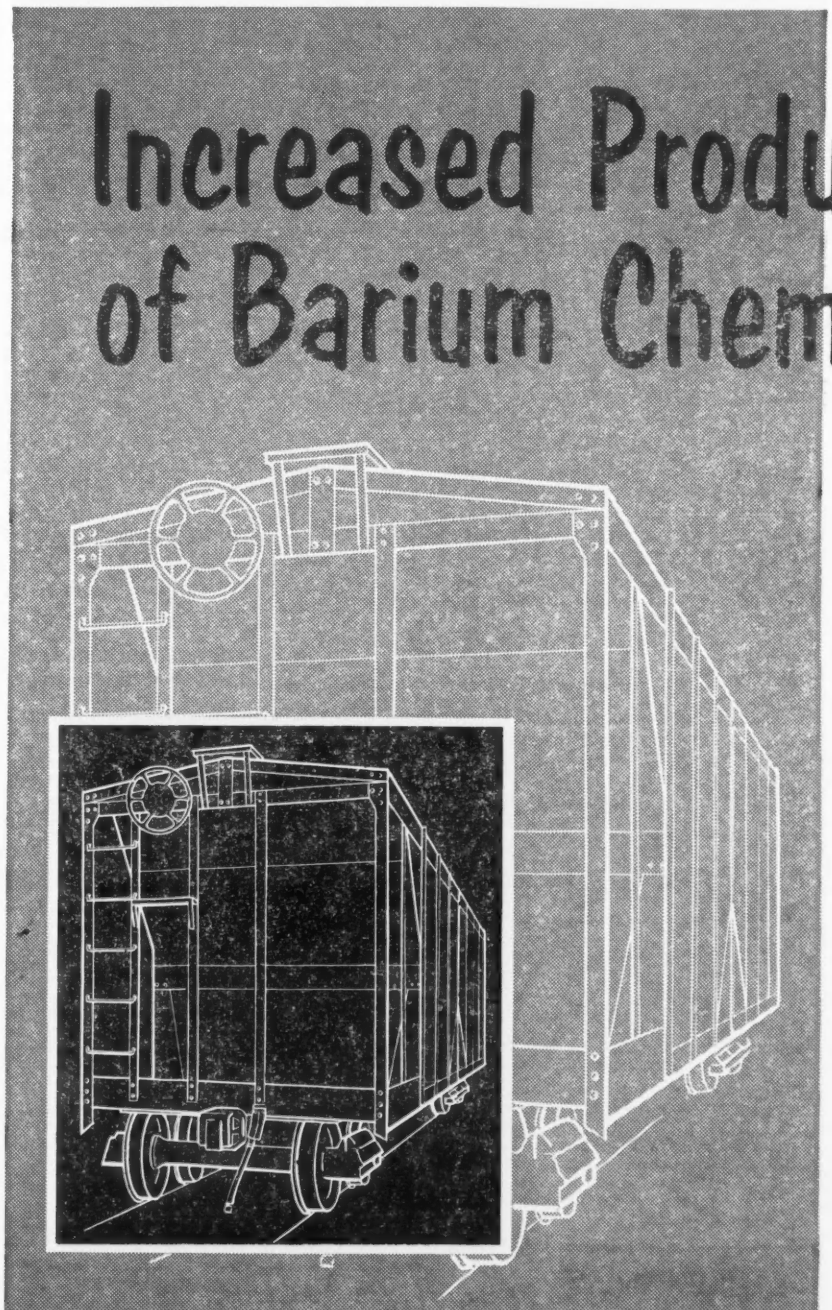

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Heavy Chemicals

Processed sulfurs, anhydrous aluminum chloride, gray sal ammoniac, calcium hypochlorite, sal soda, monohydrated sodium carbonate, anhydrous and pentahydrate sodium metasilicate, and sodium orthosilicate were among chemicals which producers announced last week would be advanced effective October 1. More price changes were expected in the heavy chemicals market before the fourth quarter. Earlier announcements of advances in chlorine, caustic soda and soda ash were key factors in the price boosts announced last week for a number of other chemicals.

The increase in processed sulfurs stood pactically alone, in that it was not influenced by advances in the alkalies. Even though crude sulfur prices did not advance, the price rise for the processed grades was necessitated by vastly increased costs of labor, materials and processing, and was the first change in these items in six years.

Producers also kept in mind that prices for sodium sulfydrate, sulfide and tetrasulfide will be advanced October 1. The rise in soda ash was judged to be the primary factor in this increase.

There was no word on sodium silicate prices, although metasilicate and orthosilicate were slated to advance October 1 on spot and November 1 on contract.

Contrary to the status of heavy chemicals in general, the potassium alkali market appeared unusually quiet. Producers expected prices on caustic potash and potassium carbonate to hold the line for the fourth quarter.

Producers of sodium molybdate reported that the trade could look for an advance on that item in the near future. Upward pressure has been brought about by increased prices for molybdenite concentrates.

The American Paper and Pulp Association reported production for the week ended September 8 at 76.4 percent of theoretical capacity, as compared with the revised figure of 97.1 percent for the previous week and 76.6 percent for the corresponding week of last year.

Price Trends

Advanced

Potassium stannate, 2.7c. per lb.
Sodium stannate, 3.1c. per lb.
Stannic chloride, 3.3c. per lb.
Stannous chloride, anhyd., 4.3c. per lb.
hydrous, cryst., 3.5c. per lb.
Sulfate, 4c. per lb.
Tin, 7⅛c. per lb.

Reduced

None.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Sept. 16, 1955
101.96	101.96	101.96	99.75

For Current Prices see Page 9

Ammoniac, Sal—A producer announced an increase of 75c. per hundred pounds for sal ammoniac (gray) to go into effect on spot and contract October 1.

At that time, the producer has slated material to be priced at $8.25 per cwt., bags, carlots, f.o.b. works, and $9.25 per cwt., less carlots, same basis.

Aluminum Chloride—Commercial anhydrous aluminum chloride was boosted ½c. per pound, effective October 1 on spot and contract, by a major producer last week.

Anhydrous chloride was newly quoted at 16c. per pound, drums, carlots, f.o.b. works, freight equalized, and 16½c. per pound, less carlots, same basis.

A producer of crystal aluminum chloride announced that effective October 1, prices would be increased $1.50 per cwt., to $16 per cwt., drums, carlots, works, and $16.50 per cwt., less carlots, same basis.

Calcium Hypochlorite — Following increases in chlorine, this material was boosted on spot and contract effective October 1 by a major producer.

At that time, calcium hyprochlorite is scheduled to be quoted at $22.95 to $25.10 per 45-pound case, delivered east of the Rockies, as to quantity, and $30.80 to $34.50 per 100-pound drum, same basis, as to quantity.

Chlorine — This material, advanced earlier this month on spot, is scheduled to go up 10c. per hundred pounds on contract, effective October 1.

Soda Ash—Light and dense ash have been slated to go up 10c. per hundred pounds across the board, effective October 1 on spot and contract.

At that time, dense is slated to list at $1.90 per cwt., bags, carlots, f.o.b. works, and $3 to $4.77 per cwt., less carlots, same basis, with bulk scheduled at $1.60 per cwt., carlots, works.

Light ash will be newly quoted at $1.85 per cwt., bags, carlots, f.o.b. works, and $3.95 to $4.72 per cwt., less carlots, same basis. Bulk will be quoted at $1.55 per cwt., carlots, f.o.b. works.

Soda, Caustic—Effective October 1, liquid grades of caustic soda will be advanced 10c. per hundred pounds, and solid grades, by 20c. per hundred pounds.

At that time, flake 76 percent caustic is slated to list at $4.70 per hundred pounds, carlots, f.o.b. works, and $5.80 per cwt., less carlots, same basis, in 400-pound drums.

Solid 76 percent has been advanced to $4.10 per cwt., drums, carlots, f.o.b. works, and $5.50 per cwt., less carlots, f.o.b. stockpoints.

Liquid 50 percent and 73 percent grades have been advanced to $2.90 and $3 per cwt., respectively, in tankcars, f.o.b. works; rayon type has been raised 10c. per cwt. above regular liquid grades, as to seller.

Soda, Sal—Last week producers announced an increase of 20c. per hundred pounds for concentrated sal soda, effective on spot and contract October 1.

Concentrated sal soda will be quoted at $2.50 per cwt., bags, fifty-bag lots or more, f.o.b. works, and $2.80 per cwt., smaller lots, same basis.

Sodium Bicarbonate—Another major producer announced that it would meet prices advanced by a maker the previous week. USP granular bicarbonate was boosted 15c. per hundred pounds in carlots, to $2.95, in bags, f.o.b. works. Less carlot differentials were increased to 90c. per cwt. over carlots, and quoted at $3.85 per cwt., in bags.

USP powdered bicarbonate was boosted to $2.55 per cwt., carlots, bags, f.o.b. works, and $3.25 per cwt., less carlots, same basis.

Sodium Bisulfite — Anhydrous was raised 50c. per cwt. across the board by a producer, effective October 1. At that time, material is to be quoted at $5 per cwt., bags, carlots, f.o.b. works, and $5.40 per cwt., less carlots, same basis.

Sodium Carbonate, Monohydrate — Monohydrated sodium carbonate has been increased 10c. per hundred pounds, effective on spot and contract October 1. New prices will be $3.10 per cwt., bags, carlots, f.o.b. works, and $3.50 per cwt., less carlots, same basis.

Sodium Hyposulfite—Prices were advanced on sodium thiosulfate effective October 1 as follows:

On pea crystals, a hexahydrate product, and on technical pentahydrate material such as is used in the food processing, and other industries, 65 cents per 100 pounds, across the board. In carlots, this brought pea crystals and technical material to $5.15 per 100 pounds.

The anhydrous sodium thiosulfate will be advanced $1.05 per 100 pounds, bringing the October 1 price level to $7.25 per 100 pounds in carlots and $7.65 per pound in less than carlot quantities. All of these prices are f.o.b. producing plant.

Sodium Metasilicate—Effective October 1 on spot and November 1 on contract, anhydrous metasilicate has been boosted 35c. per 100 pounds in carlots and 45c. per hundred pounds, less carlots.

Anhydrous in bags will be priced at $5.70 per hundred pounds, bags, carlots, f.o.b. works, and $6.15 to $8.10 per hundred pounds, less carlots, same basis.

Drums are scheduled to be quoted at $6.20 per hundred pounds, carlots, f.o.b. works, and $6.65 to $8.55 per hundred pounds, less carlots, same basis.

Pentahydrated sodium metasilicate has been raised 20c. per hundred pounds in carlots and 25c. per cwt., less carlots, effective October 1 on spot and November 1 on contract. Bags in carlots at works are slated to be priced at $4.45 per hundred pounds, and $4.85 to $6.75 per cwt., less carlots, same basis.

Drum prices effective October 1 on spot will be $4.95 per cwt., carlots, f.o.b.

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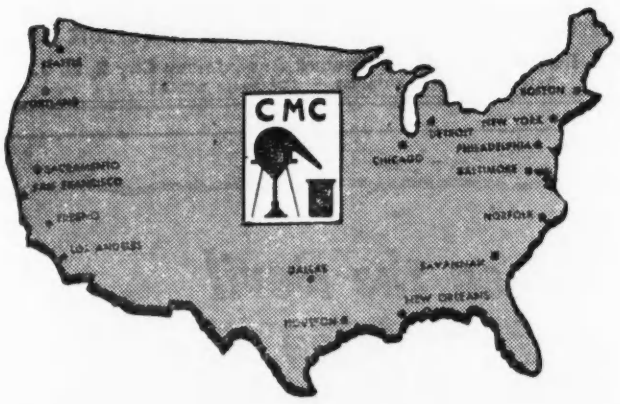

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Heavy Chemicals

works, and $5.35 to $7.25 per cwt., less carlots, same basis.

Sodium Orthosilicate—Producers have scheduled an increase of 40c. per cwt. for concentrated (anhydrous) sodium orthosilicate, effective October 1 on spot and November 1 on contract.

Anhydrous orthosilicate will be newly quoted at $6.70 per hundred pounds, drums, carlots, f.o.b. works. Hydrated orthosilicate has been raised 25c. per cwt. in carlots, and 30c. in less carlots, and will be quoted at $5.65 per cwt., drums, carlots, f.o.b. works, and $7.60 to $7.90 per cwt., less carlots, same basis.

Sodium Sesquicarbonate—Owing to increases in price of soda ash, sodium sesquicarbonate prices were lifted 10c. per hundred pounds across the board. Effective October 1 on spot and contract, material will be quoted at $2.35 per hundred pounds, bags, carlots, f.o.b. works. Less carlots are scheduled to range from $4.10 to $5.60 per cwt., same basis.

Sodium Sulfhydrate—Effective October 1, flake sodium sulfhydrate will be priced at 6¾c. per pound, drums, carlots, f.o.b. works, and 7¾c. per pound less carlots, same basis.

Liquid 40-44 percent sulfhydrate will be quoted at $120 per ton, tankcars, f.o.b. works, 100 percent basis. The new prices represent an increase of ¼c. per pound.

Sodium Sulfide—Effective October 1, flake sodium sulfide will be offered at 5½c. per pound, drums, carlots, f.o.b. works, and 6½c. per pound, less carlots, same basis. The new prices represent an increase of ¼c. per pound.

Sodium Sulfite—Prices were raised 50c. per cwt. by a producer, effective October 1, on photo grade. At that time, sodium sulfite is scheduled to list at $7.75 per cwt., drums, carlots, f.o.b. works.

Sodium Tetrasulfide — Forty percent liquid is scheduled to list at 4c. per pound, drums, carlots, f.o.b. works, and 5c. per pound, less carlots, same basis, effective October 1. This represents an increase of ½c. per pound.

Sulfur—Effective September 15 on spot, all processed grades of sulfur were increased 25c. per hundred pounds. The new prices go into effect October 1.

Since price changes went into effect Saturday, and the prices Current section of OPD closed out the previous day, new prices for processed sulfur will appear in next week's issue.

Tin Chemicals—With higher tin, potassium stannate was raised to 73.6c. to 80.2c. per pound; sodium stannate, 61.1c. to 66.5c.; stannic chloride, 82.8c. to 83.8c.; anhydrous stannous chloride, 96.4c. to $1.232; hydrous crystals, 84c. to 85c.; and sulfate, $1.016 to $1.036.

Zinc Chloride—Effective October 1, technical fused and granular zinc chloride are scheduled to be advanced 60c. per hundred pounds across the board, by a major producer.

This would make quotations as follows:—Technical, fused, $10.70 per cwt., drums, carlots, f.o.b. works, and $11.20 per cwt., less carlots, same basis.

Technical granular, $11.45 per cwt., drums, carlots, f.o.b. works, and $11.95 per cwt., less carlots, same basis.

Zinc-Ammonium Chloride — Effective October 1, prices have been scheduled by a producer to be advanced 60c. per hundred pounds across the board.

This would put bagged material up to $10.25 per cwt., carlots, f.o.b. works; in barrels, $10.85 per cwt., carlots, f.o.b. works, and $11.35 per cwt., less carlots, same basis.

Nonferrous Metals

Silver—Bullion was quoted at 90¾c. per troy ounce, spot, on Friday.

Tin—The Suez crisis sent Straits tin higher. Metal rose sharply to $1.08 per pound, spot, on Friday.

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Packaging Institute Elects Officers, Directors for 1957

The Packaging Institute has elected A. Douglas Murphy, of Esso Standard Oil Company, president, at its recent forum in Cleveland, Ohio.

Other officers for the coming term are:—Vice-president and treasurer, Harold Mosedale, jr., Package Machinery Company; vice-president and chairman of the technical operations committee, L. H. Zahn, Ciba Pharmaceutical Products, Inc.; vice-president, Charles W. Kaufman, Kraft Foods Company.

Directors elected by the institute were T. C. Baker, Container Corporation of America; L. P. Weiner, Pabst Brewing Company; George Weissman, Philip Morris & Co.; E. P. Whitley, Dobeckmun Company, and Mr. Zahn.

Chlorine, Caustic

—*Continued from page 3*

by Wyandotte at Geismar, in Ascension Parish, Louisiana.

The site is on the east bank of the Mississippi River about twenty-five miles south of Baton Rouge. Site clearance for the ethylene-oxide plant was begun in August. Completion of the engineering and design work is well under way, with the plant scheduled to go on stream in the last quarter of 1957.

Mr. Semple said Wyandotte's research and engineering division will do the process engineering for the chlorine-caustic unit and will award contracts for construction, engineering and equipment by late November.

Bert Cremers, vice-president of Wyandotte and general manager of the Michigan Alkali Division, which will operate the Louisiana facilities, said that studies on planned growth by chlorine and caustic consuming industries indicate a constantly increasing demand for the products.

"The selection of a southern location for our new production units," Mr. Cremers said, "will open to Wyandotte additional large tonnages of business in areas heretofore barred to us because of freight costs from our Michigan plants. This second plant and shipping point also improves our ability to serve present customers because of economic waterway transportation from the new site."

Mr. Cremers said that when Wyandotte management chose the Louisiana site, it did so because of the availability of almost limitless quantities of ethylene, salt, natural gas and electric power.

These factors, plus the waterway shipping possibilities, he said, will influence the company's developments in the area, and also should encourage other companies which can tie in with Wyandotte's basic production to consider satellite and over-the-fence projects to participate in the growing market for chemicals.

To encourage such development, Wyandotte Chemicals has acquired the large acreage in one tract. The present Wyandotte facilities will occupy only about 100 acres of this tract.

Dow's Expansion

—*Continued from page 3*

excesses of capacity whereas this last year we were operating in most lines at about the practical limits of capacity," he said.

Discussing personnel activities in fiscal 1956, Dr. Doan commented that "employee relations and the general efficiency of personnel are always potent determinants of a company's performance, and I can only say that both were excellent."

He noted, too, that Dow workers again established a new safety record. "It was the safest year in our history and I sincerely hope this one will be even safer," he said.

During the meeting the stockholders adopted a resolution amending the company's certificate of incorporation by eliminating all references to cumulative preferred stock. This stock was redeemed in October, 1954.

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Obituaries

Bernard Victor Christensen

Dr. Bernard Victor Christensen, retired dean of the College of Pharmacy of Ohio State University and a past president of the American Pharmaceutical Association, died in Columbus, Ohio, September 13. He was seventy-one years old.

Dr. Benjamin Minge Duggar

Dr. Benjamin Minge Duggar, discoverer of the antibiotic aureomycin chlortetracycline, died September 10 in New Haven, Conn. He was eighty-four years old.

In 1945, Dr. Duggar made his discovery of aureomycin at the Lederle Laboratories Division of American Cyanamid Company, Pearl River, N. Y. It was the result of two years of research in which he tested thousands of strains of actinomycetes, isolated from soil samples collected from many parts of the world.

In its clinical tests, aureomycin proved effective against many infections that had failed to respond to or had become resistant to the sulfonamides, penicillin and streptomycin.

Normana Eugene McIndoo

Norman Eugene McIndoo, nationally known entomologist and research worker in the insecticide division of the Department of Agriculture, died September 8 in Washington, D. C. He was seventy-five years old.

While with the government, Dr. McIndoo did research with the South American plant cube, which resulted in its use as a source of rotenone.

Harry O. Burrows, an executive of Aluminum Company of America, Pittsburgh, Pa., died September 10 in Cleveland, Ohio. He was sixty-four years old. Mr. Burrows was co-inventor of the ingot-casting processes used by Alcoa.

L. Keith Cullen, manager of the Cleveland, Ohio, district office of Armstrong Cork Company's glass and closure division, died August 31 in that city. He was sixty-two years old.

William Kroemmelbein, sales representative for Smith, Kline & French Laboratories, Philadelphia, and a former teacher at the New Jersey College of Pharmacy, Newark, N. J., died September 5 in Point Pleasant, N. J. He was sixty-four years old.

Baltimore Purchasing Agents Planning Products Exhibit

"The fourteenth annual manufacturers' products exhibit sponsored by the purchasing Agents' Association of Baltimore will open at 11 a.m., September 25 in the main ballroom of the Lord Baltimore hotel. It will continue through the 27th.

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Agricultural Chemicals

The market for agricultural chemicals last week showed little variation from its position of the past few weeks. Most fertilizers and source materials going into fertilizer appeared unmoving, bidding time according to dealers as the seasonal period vanished from sight. In the orbit of animal protein materials, some price shifts were noted. Blood from both Chicago and New York advanced 50 cents per unit ton to $6 and $5.50 respectively. Tankage also advanced for both areas, moving to $5.25 for New York material and $6.25 for Chicago. This is a 25 cents advance for the former and a 50 cents advance for the latter. Castor pomace also was reported very strong, though no price shift was reported. However, dealers noted that offerings were scarce and, if the condition continues, a change might occur.

Mine production of phosphate rock ore in the United States in 1955 decreased thirteen percent to 39.7 million long tons, according to reports by producers to the Bureau of Mines. The total marketable output declined 11 percent. Florida and Tennessee both registered decreases in marketable production, 16 percent and ten percent, respectively, whereas the western states showed a 17 percent increase. Because of a strike in the Florida land pebble field, total stocks in producers hands were 17 percent less than in 1954.

Phosphate rock sold or used in the United States was one percent above the 1954 figure. The western states had a 19 percent increase, while both Florida and Tennessee were slightly below the previous year.

The apparent consumption of phosphate rock rose two percent above 1954 to 11.1 million long tons.

Phosphate rock imports decreased four percent, compared with 1954. Largest shipments came from Curacao and were used mainly for animal feed shipments. United States exports, as reported to the Bureau of Mines by domestic producers, were four percent lower than in 1954.

Estimated world production of phosphate rock increased two percent in 1955, compared with 1959. Europe, Asia, Africa and Oceania all reported increased output.

Price Trends

Advanced

Blood, New York, 50c. per unit-ton.
Chicago, 50c. per unit-ton.
Tankage, New York, 25c. per unit-ton.
Chicago, 50c. per unit-ton.

Reduced

None.

Comparative Price Indexes

(100—1949 average)

Last week	Prev. week	Last month	Sept. 16, 1955
107.28	107.22	106.30	110.78

For Current Prices see Page 9

Animal and Plant Foods

Ammonia, Anhydrous—The market continued to reflect the aftermath of the seasonal period last week, dealers here reported. With price listings at a particularly low level, producers hope to pick up as many sales as possible during this particularly soft market period. At present the market stands at $72 per unit ton, having declined $5 per unit ton to an $80 level in July, and then brought down again last month to its present level. However, the present position is only a seasonal one that will advance to $75 at the end of this month and then, at the end of the year, it will return to its regular $80 per unit ton listing.

Animal Protein—Erroneous information was offered in this column last week in reference to nitrogenous sludge. Correct data is as follows: Effective September 1 through June 30, 1957, the price of nitrogenous sludge is $2.95 per unit of ammonia and 50c. per unit of APA. During the summer months the listing has been $2.75 per unit of ammonia.

Blood from both sources advanced strongly on the market last week, dealers here reported, as demand hightened in the face of scarce supply. The new listing for material was $5.50 or a 50c. per unit advance for New York material and $6 per unit for Chicago blood, also a 50c. advance over the previous listing.

Tankage also appeared very strong on spot last week, dealers said, as a result of intimations of a packinghouse worker's strike. The new listings are $5.25 per unit for New York material, or a 25c. advance, and $6.25 per unit for Chicago material or a 50c. advance over the previous listing.

The fishscrap and fishmeal market remained unmoved last week from its position of the past few weeks. The Menhaden catch was reported fair to good last week and to date was on a par with the production of a year ago. Prices continued as previous with fishmeal standing at $135 per unit ton and $131 per unit ton for fish scraps.

Castor Pomace—Dealers noted last week that though the listing on spot failed to shift for this material, offerings were scarce. A continuation of this condition will in all probability, it was noted, lead to some movement.

Pesticides

DDT—Dealers and producers here last week reported little change for this commodity. Continued strength was reported in spite of the decline of the domestic market. Major contributor to the strength of the market at this time, it was noted, appears to be heavy government buying for export through aid programs. However, the export market itself is soon expected to bloom out of the present hiatus period.

2-4-D—The export market for this material, as well as for 2,4,5-T appears to be growing all the time, dealers here on spot reported last week. Though sales at present are not considered excessively high, they are well ahead of those of last year and anticipation is for a strong season.

Lindane—Export sales for this material continue slow, dealers here noted last week. The condition is not expected to shift owing to the fact that it is attributable to competition from Europe. The European producers, original developer of the material, and their patents upon its use, preclude heavy competition from any outside source.

BHC—Domestically this material continued to show some slight strength last week, it was reported here. However, export figures shows that sales situation to be somewhat slow.

Farm Chemicals Imports: July

Following are data compiled by the Census Bureau indicating volume and value of imports of agricultural chemicals. Classified as ammonium nitrate mixtures are those containing 20 percent or more nitrogen. Figures for ammonium phosphates account only for that material intended for use as fertilizer. The term tons refers to short tons.

IMPORTS		July 1956	Value
Ammonium nitrate, including mixtures	tons	19,923	$1,088,533
Ammonium phosphates	tons	5,189	363,325
Ammonium sulfate	tons	3,170	138,885
Blood, dried	tons	216	29,987
Calcium cyanide or lime nitrogen	tons	3,269	178,507
Nitrate, calcium	tons	560	16,227
Sodium, crude and refined	tons	6,212	200,800
Phosphates, crude, including apatite and phosphate rock	tons	7,358	163,478
Potassium chloride, crude	tons	6,063	143,000
Nitrate, crude	tons	6	677
Sulfate, crude	tons	6	1,227
Urea	tons	2,385	217,811

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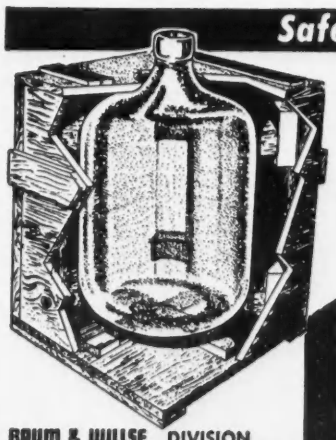

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Textile, Leather Chemicals

Steady consuming demand continued for textile and leather chemicals last week, chiefly for prompt needs. Improved inquiry was reported for forward delivery, but actual trading was still limited. Higher cost of soda ash and soda caustic effective October 1 has created a firmer undertone in most chemicals. Price trend of Brazilian tapioca flour continued upwards. Prices for shipment were lifted about three-quarter cents per pound with offers scarce at the higher level. This caused buyers to practically withdraw interest in replacements and market was entirely nominal. Stocks on spot also were stronger and higher and offered sparingly. Other sizing materials remained unchanged and steady, with demand fairly active for prompt delivery. Firmer tone developed in egg derivatives and yolk was raised 4 cents per pound in some quarters while egg albumin was unchanged.

Price Trends

Advanced

Egg yolk, 4c. per lb.
Tapioca flour, Braz., ¾c. per lb.

Reduced

Myrobalans, J-1, gen., $1 per ton.

Comparative Price Indexes
(100—1949 average)

Last week	Prev. week	Last month	Sept. 16, 1955
107.23	107.41	107.41	104.26

For Current Prices see Page 9

Buying interest in tanning materials continued spotty and confined to nearby shipment. Genuine J 1's myrobalans was easier and off $1 per ton, while other grades were unchanged. Other tanning materials were held at former levels.

Production of woolen and worsted fabric totaled 89.1 million linear yards during the second quarter. This was 8 percent higher than the first quarter and 6 percent above the second quarter last year. Output of women's and children's clothing fabrics at 42.1 million finished linear yards was 8 percent above that of the previous period, and 6 percent above the second quarter 1955. Men's and boys' clothing fabric production increased 11 percent during the second quarter to 43.7 million finished linear yards.

The government cotton crop estimate as of September 1 was reduced 3 percent to 13,155,000 bales as a result of bad weather and cutback in acreage. This compared with estimate of 13,552,000 bales August 1 and 1955 production of 14,721,000 bales. The 1945-54 average is 13,098,000 bales. Deterioration of crop prospects brightened the chances of reducing the cotton surplus.

Chemicals

Bichromates—Conditions in this market continued firm, reflecting the increased cost of basic materials. Prices were unchanged and well held for all grades. Consuming inquiry has improved for requirements during the balance of the year.

Sodium Hydrosulfite—Buying interest improved for spot and later requirements. Market remained steady and quotably unchanged.

Sizing Materials

Albumin Blood—Trading was fair, chiefly for prompt needs. Prices were unchanged and firm, ranging from 65c. to $1 per pound, according to quantity.

Corn Starch—Buying interest was quite active for all grades. Prices were well held at prevailing quotations. Pearl was quoted at $7.27 per 100 pounds, paper bags, carlots, New York, and powder, $7.39, same basis. Less carlots were 15c. per 100 pounds higher. Visible corn supply declined 430,000 bushels to 44,002,000 bushels for the week ended September 7, compared with 19,616,000 bushels for the same time last year, it was reported by the Chicago Board of Trade.

Egg Albumin—Firm tone prevailed in this market. Demand became more active. Flake was moved at $1.85 to $1.87 per pound, and powder $1.89 to $1.91, spot as to quantity and seller. Technical continued in limited supply and was closely held at $1.08 to $1.10 per pound, as to quantity.

Egg production totaled 4,559 millions, against 4,752 millions in July and 4,295 millions, August last year. Total output for January-August inclusive amounted to 41,501 millions, compared with 40,956 for the same period last year and 1945-54 average of 41,157 millions.

The Department of Agriculture is prepared to purchase shell eggs if such action seems necessary to stabilize egg prices. Purpose of a purchase program would be to help stabilize egg prices to producers as the normal seasonal increase in marketings occurs during the fall months. Any eggs purchased will be distributed to schools under the National School Lunch Program and to eligible institutions. Purchases will be made with Section 32 funds. Purchases will be limited to top quality eggs of medium or large size. A federal grading certificate will be required on all purchases at point of origin and a subsequent check will be made of all deliveries at point of destination. When a purchase program is put into effect, an announcement will be issued outlining the details for procurement.

Egg Yolk—This market was stronger and quotations were lifted $1.07 to $1.09 per pound, spot according to seller and quantity. Trading was more active for prompt delivery.

Potato Starch—Trading was restricted to spot delivery, as consumers awaited the new production scheduled to start mid-October in Maine. Stocks on spot were maintained at 8¾c. to 10c. per pound, exwarehouse, according to quantity. Idaho market remained steady at 6¼c. per pound, carlots, f.o.b. mills and 6c. for delivery to eastern points. Dutch starch was lower and recently reduced to 7½c. per pound, carlots, exdock, duty paid for prompt shipment. Market in Maine was reported bare of supplies and quoted nominally around 7¼c. per pound, carlots, f.o.b.

Tapioca Flour—Trend of Brazilian flour continued upwards. Offers of high grade for shipment were scarce and quoted nominally around 10½c. per pound, carlots, exdock, with no takers. Buying interest was reported nil at the higher level. Stocks on spot were offered sparingly and quoted nominally at 10½c. to 11c. per pound, exwarehouse, depending upon seller and buyer. In some quarters sellers have withdrawn from the market and held stocks for their own use. Siamese flour was quiet and unchanged. AAA grade was quoted at 6¾c. per pound, carlots, exdock and mediums ranged from 5½c. to 5.85 per pound, same basis, as to quality.

Tanning Materials

Chestnut Extract—Trading was still confined to actual needs. Replacements were quoted at former levels. Solid extract guaranteed 60 percent was quoted at 9⅛c. per pound, carlots, exdock, plus duty, prompt shipment and powdered, 70 percent, 10⅝c., same basis.

Cutch—This market remained unchanged and steady. Offers for shipment were maintained at 8½c. per pound, carlots, exdock, plus duty.

Mangrove Bark—Buying interest was light and spotty. Replacements were unchanged and steady. African bark was quoted at $66 per ton, exdock, prompt shipment; Colombian, $58 per ton and Ecuadorian, $55 same basis.

Quebracho Extract—Sales were confined to an occasional lot for nearby shipment. Primary market was quotably unchanged. Solid ordinary guaranteed 63 percent tannin was quoted at 11 21/32c. per pound, exdock, plus duty and clarified 64 percent at 12 23/64c., same basis.

Valonia—Extract was quiet at the recent decline. Prompt shipment was quoted at 9c. per pound, exdock, plus duty. Beards were quoted at $80 to $81 and cups, $58 to $59 per ton, exdock, prompt shipment. Buying interest was reported slow.

Wattle—Consuming inquiry continued spotty and restricted to nearby shipment. Primary market was quotably unchanged. Fair average bark quoted at $95 to $96 per ton, exdock, prompt shipment and merchantable at $91 to $92.

East African extract was held at 9⅞c. and South African 10c. per pound, carlots, exdock, prompt shipment, plus duty.

Aliphatic Organics

Substantially the entire industry was represented by week's end in agreement on a price advance of 1 cent per pound across the board for acrylonitrile effective October 1. The mainstay of the market was in demand for use in manufacture of acrylic fibers, which had increased considerably in the recent past and gave promise that there was still plenty of room to grow. In less volume, the nitrile-type rubbers were giving steady support to this market, backed up by a wide spectrum of end uses, notably adhesives and bonding agents for brake linings. Production of acrylonitrile, almost double in 1955 what it had been in the year previous, was still rising rapidly. One major producer was pushing development of a new facility that would double the company's capacity. The new plant was expected to go on stream by mid-1958.

Trade sources viewed the current period of rising production and growing inventories for synthetic glycerine as transitory. They said present indications were that 1956 might prove the best consuming year yet, with domestic consumption amounting to as much as 245 million pounds this year if fourth quarter sales should live up to the more optimistic forecasts. It was said that the weakening in the price structure that led to the recent 2 cents per pound decline was attributable to addition of about 36 million pounds of production capacity early in the year at a rate too fast for the market to absorb it. Restoration of good balance was expected to require only several months.

Methanol in tanklots was still priced at quotations prevalent in the third quarter, and there was no announcement of an increase in the fourth quarter. However, increased costs of containers and stiffer freight rates forced up drum differentials 1 cent per pound, carlots, and 2 cents per pound, less carlots. Producers reported notably heavy seasonal demand for methanol for use in antifreeze compounds, the continued gains of ethylene glycol in this field notwithstanding, and noted increased activity in diverse other consuming channels.

Growing demand for carbon tetrachloride for use in manufacture of fluorinated hydrocarbons for aerosol propellents highlighted brisk trade in carbon tet. The price pattern was established on firm ground, but up to press time there had been no indication that the recent hike in chlorine gas, a minor factor in the carbon tet cost-price picture, would be reflected here.

Price Trends

Advanced
None.

Reduced
None.

Comparative Price Indexes
(100—1949 average)

Last week	Prev. week	Last month	Sept. 16, 1955
130.20	130.20	130.97	130.97

For Current Prices see Page 9

Acrylonitrile—Demand was strong last week, giving support to a robust market.

Substantially the entire market was now represented by companies which by week's end had announced an increase in prices effective October 1 amounting to 1c. per pound across the board. The new quotation would stand at 28c. per pound in tanklots on the basis of freight equalization with the nearest producing point. Increased labor and raw materials costs were cited.

One major producer was pushing developments on a new production facility that would double the company's capacity. At last reports, the plant was expected to be in production by the middle of 1958.

The mainstay of this market was acrylic fibers manufacture, which has been very considerably expanded recently and was still regarded as a young industry with plenty of room for further growth.

In much less volume, but affording a notably stable outlet of appreciable significance, was demand for use in manufacture of nitrile-type rubbers. It was pointed out that these rubbers move independently of market conditions governing GRS rubber, which is erratic and currently somewhat depressed because of its heavy dependence on a few large consuming industries. The nitrile types enjoyed a steady market on account of the wide diversification of demand for them, emanating from numerous consuming industries, none of them a dominant factor by itself, all of them together comprising a market of considerable value. Among the leaders currently were adhesives and bonding agents for brake linings.

It was noted that the trend of recent years, pointed up by an increase in production from 67 million pounds in 1954 to 117 million pounds in 1955, was still in evidence and could be projected into the future with some confidence.

Carbon Tetrachloride—Supplies were reported as adequate to meet demands. Business volume was well sustained, and the growing demand for its use in the manufacture of fluorinated hydrocarbons for aerosol propellents helped keep up business volume and offset any lag in past months for the usual end-use patterns. Increased demand in line with chemicals generally was expected to develop early in the fourth quarter. Prices were firm and unchanged, and as yet there were no upward adjustments made to offset the increasing price of chlorine due to take effect October 1.

Glycerine—The current period of rising production and building inventories for synthetic glycerine was to be regarded as highly transitory, in the view of most students of this market. It was pointed out that 1956 is going into the books as a very satisfactory consuming year, possibly the best to date. One leading producer was acting on the assumption that domestic consumption in the current calendar year would amount to about 240 million pounds, perhaps as much as 245 million pounds if the fourth quarter is as active as could be expected. Producers confidently predicted continued heavy production of synthetic material.

The weakening of prices earlier in the year that led to the general reduction of 2c. per pound August 27 was attributed to the entry into the field of a major new production facility and addition of something like 36 million pounds per year to the rate of production faster than the market could absorb the impact. Trade sources thought the market would be restored to a balanced position in several months, possibly by late 1957. The sensitivity of this balance could be reckoned from the fact that acceleration of production by something less than 15 percent was enough to shift the position from that of a very strong sellers' market late in 1955 to one of a very strong buyers' market a few months later.

The easing in the tone of the synthetic glycerine market had been preceded by accumulation of crude material from all around the world at a rate too fast to permit market adjustments to keep pace.

While detergent sales were still gaining a larger proportion of the total soap-plus-detergents market, it was believed that the current year will mark the end of the decline in byproduction of crude glycerine from soap. The expanding markets in detergents were incremental, rather than representative of a switch from soap to detergent use. This trend was most pronounced in Europe, where detergent production was just coming of age.

Most trade sources believed that the US would be in the importing-nation category with respect to glycerine early in 1957, but by a narrow margin only.

Methanol—The tanklots price prevalent in recent months was expected to remain unchanged in the fourth quarter, but increased costs of containers and higher freight rates induced leading producers to announce an increase in drum differentials of 1c. per pound on carlots and 2c. per pound on less carlots.

The new prices went into effect last Monday on spot sales and would be effective in contracts October 1.

The new schedule shows eastern carlots prices up from 45c. to 46c. per pound, on a delivered basis, and those for less carlots up from 51c. to 53c. per pound.

In California, Washington, Oregon, Idaho, Utah, Nevada and Arizona, carlots prices were advanced from 48c. to 49c. per pound, while less carlots rose from 54c. to 56c. per pound.

Producers reported gratifying seasonal demand last week in sales to outlets via antifreeze compounds. There was plenty of activity generally. While ethylene glycol continued to show gains in the pro-

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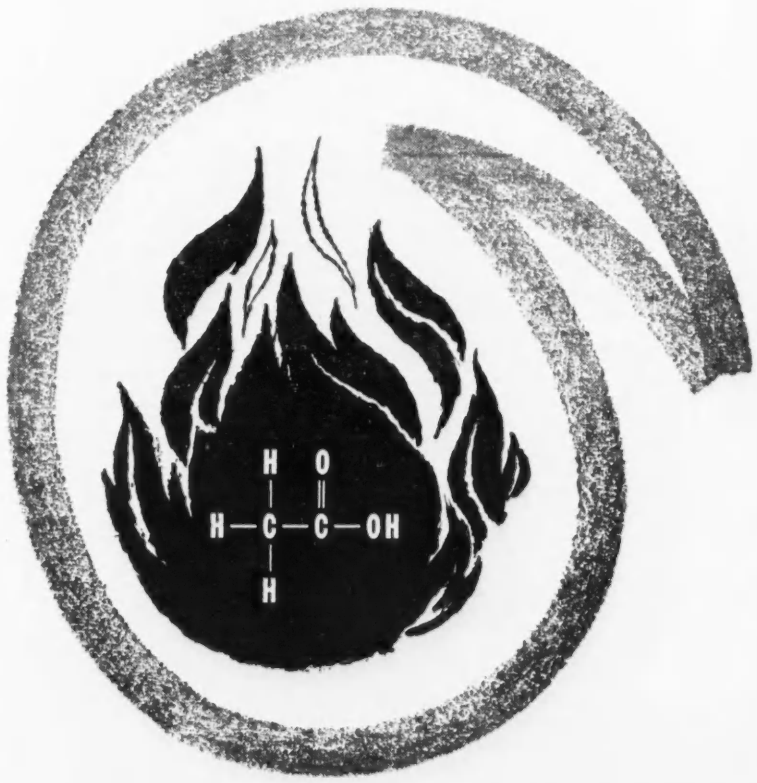

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Initial Boiling Point, °C	184	216
Dry Point, °C	190	223
Specify Gravity, 20/20 °C	0.833	0.839
Refractive Index, n_D^{20}	1.432	1.439
Color, APHA	10	10
Alcohol, Wt., %	99+	99+
Flash Point (Open Cup), °F	190	210

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Aliphatic Organics

portion of the antifreeze business it was taking, the total volume of antifreeze sales, in absolute terms, was growing fast enough to accommodate both materials avidly. In addition, methanol was moving better in diverse other consuming channels.

Production of synthetic material in June amounted to 128,722,521 pounds, according to a recent report issued by the Tariff Commission. It represented a substantial increase over output of 118,282,985 pounds in the month previous, as reported by the commission.

The commission put production of natural methanol in May at 1,321,360 pounds, reported no figure for June. The absence of a figure in the commission's report can indicate either that the available data were not considered representative of the true total or that the available total might divulge information of a confidential nature.

Oxalic Acid — Production in 1955 amounted to 19,549,000 pounds, according to a report issued recently by the Tariff Commission. The report put sales in the same period at 19,037,000 pounds having a value of $3,147,000, or 17c. per pound.

The commission reported output of oxalic acid salts in 1955 was 4,100,000 pounds. Sales in the same period amounted to 3,990,000 pounds valued at $1,020,000 on the basis of 26c. per pound.

Palmitic Acid—The Tariff Commission reported production of palmitic acid salts, including zinc palmitate, amounted to 407,000 pounds in 1955.

Output of palmitoyl chloride in the same year was put at 66,000 pounds.

Pentaerythritol—Production in the year 1955 was 61,216,000 pounds, according to a report recently released by the Tariff Commission. The report put sales during the same period at 51,507,000 pounds, valued at $16,331,000 on the basis of a price of 32c. per pound.

Total 1955 production of pentaerythritol tetranitrate, the Tariff Commission reported, amounted to 1,626,000 pounds. The commission reported sales of the tetranitrate in the same period aggregated 1,558,000 pounds with a value, on the basis of a price of 76c. per pound, of $1,190,000.

Wyeth Int'l Appoints

Edwin W. Wilfert has been named technical director of Wyeth International, Ltd., to supervise production operations of the company's foreign units.

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MATHIESON

National Aniline Division Opens Branch in Akron

National Aniline Division, Allied Chemical & Dye Corporation, New York, has opened a branch office at 326 South Main street, Akron, Ohio. The office is in the charge of R. W. Vail.

Akron telephone number is Blackstone 3-9324. Direct "Enterprise" exchange telephone listing in Cleveland is also being arranged for the convenience of customers in that area.

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Calcium Hypochlorite Raised By Olin Mathieson Division

An increase in prices of its high test calcium hypochlorite has been announced by the industrial chemical division of Olin Mathieson Chemical Corporation, Baltimore, Md. The new prices are as follows:—

For the product as marketed under the trade name of "HTH Granular":—east of the Rockies, 100-pound drums, $34.50 per drum for one or two drum lots to $30.80 per drum for ten or more drums; 45-pound net weight cases of either 5-pound or 3¾-pound cans, $25.10 per case for one or two case lots to $22.95 per case for 10 or more cases. West of the Rockies, $35.85 to $[illegible] per drum, $25.80 to $23.60 per case.

For the product as marketed under the trade name of "HTH Tablets"—east of the Rockies, 100-pound drums, $38.60 per drum for one or two drum lots to $34.45 per drum for 10 or more drums; 45-pound net weight cases of 3¾-pound cans, $27 per case for one or two case lots to $24.65 per case for 10 or more cases. West of the Rockies, $40 to $35.70 per drum, $[illegible]7.70 to $25.30 per case.

The price increases to distributors on both items are $1.50 per 100-pound drum and 25 cents per 45-pound net weight case.

FDA Exempts Antibiotics For Specified Applications

The Food and Drug Administration has exempted salts of antibiotic drugs for use in teaching, law enforcement, research, and analysis from the certification requirements of the food, drug and cosmetic act.

The exemption was provided for in the following new section added to the general regulations for certification of antibiotic drugs:—

"Section. 146.30 . . . The salts of antibiotic drugs subject to section 507 of the act shall be exempted from the requirements of section 502 (l) if shipped or sold to, or in the possession of, persons regularly and lawfully engaged in instruction in pharmacy, chemistry, or medicine not involving clinical use; or in law enforcement; or in chemical analysis or physical testing, provided they are to be used only for such instruction, law enforcement, research, analysis, or testing, and providing further that their labels bear the statement 'Not for drug use.'"

Perkin Conclave

—*Continued from page 5*

"mauve," the first synthetic dye, 100 years ago.

The Perkin medal of the British Society of Dyers and Colorists was posthumously presented to Dr. Wallace H. Carothers, pioneer in the research leading to the discovery of nylon.

H. Thomas Hallowell, jr., president of American Standards Association and president of Standard Pressed Steel Company, presided at the luncheon.

The morning session of International Day co-sponsored by the American Association of Textile Chemists and Colorists and the American Society for Testing Materials, brought speakers from Canada, France, Germany, Switzerland, and the United Kingdom. They described the latest developments in colorfastness testing in their countries. Charles A. Sylvester, chairman of the technical committee on research of the American Association of Textile Chemists and Colorists, discussed current developments in the United States and presided. William D. Appel, of the National Bureau of Standards, was moderator.

An International Day afternoon panel session on the impact of man-made colors on commerce and industry in the United States featured these speakers:—

Harry L. Dalton, vice-chairman of the board, American Viscose Corporation; Robert Bingman, chief stylist in charge of colors and fabrics, Chrysler Corporation; Miss Willie Mae Rogers, director of Good Housekeeping Institute; Jackson E. Spears, vice-president, Burlington Industries, Inc.; John E. Reeves, president, Reeves Brothers, Inc.; Joseph Knapp, president, Fox-Knapp Manufacturing Company; Kenneth H. Klipstein, general manager, research division, American Cyanamid Company.

Also Albert Kner, color consultant and chief designer, Container Corporation of America; George Stuhr, sales manager, Southern Craft Division, International Paper Company; L. K. Merrill, vice-president, Bakelite Company, division of Union Carbide & Carbon Corporation; Philip M. Talbott, senior vice-president, Woodward & Lothrop, and president, National Retail Dry Goods Association; Arthur S. Johnson, vice-president, American Mutual Liability Insurance Company, and chairman of the ASA Standards Council; Mrs. Dorothy Liebes, textile designer and colorist; Robert A. Seidel, executive vice-president, Radio Corporation of America; and John A. Cairns, president, Anderson & Cairns, Inc.

Guest panelists from other countries included:—Dr. Werner Kunz, Hebellein & Co., Switzerland; J. W. Eaton, T. Eaton Company, Ltd., Canada; and Clifford Paine of England.

Chairman of the afternoon meeting of International Day was Charles W. Dorn, chairman, executive committee on research of the American Association of Textile Chemists and Colorists. J. Robert Bonnar, sales manager of the dyestuffs and pigments division, General Dyestuff Company, served as moderator. Leonard S. Little, New York textile consultant, was chairman of the International Day committee.

ADM Appoints Bruce

The appointment of Ralph Bruce, assistant vice-president of Archer-Daniels-Midland Company, Minneapolis, Minn., as manager of the firm's linseed division has been announced. As head of the linseed division, Mr. Brue will direct the sale of linseed oil and meal, as well as the purchase of flaxseed.

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Properties

Molecular Weight	31.06	
Boiling Point at 760mm, °C	– 6.79	
Flash Point, Tag Open Cup, °F	34	(30% sol)
Density at 20°C	0.912	(30% sol)
Weight per U.S. Gallon at 68°F, lbs.	7.6	(30% sol)

DIMETHYLAMINE $(CH_3)_2NH$

Uses

Raw material in manufacture of thiuram sulfide-type vulcanization accelerators and of dimethyldithiocarbamic acid salts used as fungicides. Neutralizing and solubilizing agent in preparation of concentrated solutions of 2,4-D salts. Manufacture of anti-malarials.

Properties

Molecular Weight	45.08	
Boiling Point at 760mm, °C	6.88	
Flash Point, Tag Open Cup, °F	54	(25% sol)
Density at 20°C	0.921	(25% sol)
Weight per U.S. Gallon at 68°F, lbs.	7.7	(25% sol)

TRIMETHYLAMINE $(CH_3)_3N$

Uses

Preparation of long-chain quaternary ammonium compounds used as softeners, lubricants and waterproofing agents for textiles. Used with benzoyl peroxide to "set" methacrylate resins. Synthesis of cationic surface-active agents.

Properties

Molecular Weight	59.11	
Boiling Point at 760mm, °C	2.87	
Flash Point, Tag Open Cup, °F	38	(25% sol)
Density at 20°C	0.913	(25% sol)
Weight per U.S. Gallon at 68°F, lbs.	7.6	(25% sol)

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For further information concerning Borden's Methyl Acetate, write The Borden Company, Chemical Division, Polyco-Monomer Dept. OPDR-96, 350 Madison Avenue, New York 17, N. Y. In Canada: Polyresins, Ltd., 184 Laird Drive, Toronto 17 (Leaside), Ontario.

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Celanese Slates $100 Million for Expansion

—Continued from page 5

in 1955, which has taken a big share of the molded pen and pencil business and looks promising for telephone sets and numerous other applications.

Good acceptance also has been achieved by polyvinyl acetate emulsions, used in making water-base latex paints for interior and exterior surfaces, to an extent that plans are being considered to expand polyvinyl acetate-chloride production to meet demand.

Increased demand for acetate sheeting prompted expansion of sheet-casting facilities in the Belvidere, N. J., plant to nearly double production capacity.

By early 1957, a new plant in Houston, Tex., will start producing "Fortiflex," a polyolefin with unusual rigidity, heat resistance, chemical inertness and other property advantages over conventional polyethylenes.

Celanese Mexicana, S. A., has grown from a one-plant venture in 1946 to a diversified five-plant operation with assets of 525 million pesos ($42 million), Mr. Blanke said.

The first Mexican-made nylon has just come into production in the Ocotlan plant. Other products made by Celanese Mexicana include acetate and rayon filament yarn and staple fiber, rayon tire cord and tire cord fabric, purified cellulose from cotton linters, cellophane, polyvinyl acetate emulsions and fabricated polyester products.

Celanese Colombiana, S. A., likewise has achieved commercial success, having quadrupled production since 1951, and now produces acetate yarns and staple fiber, fabricates polyester resin products and supplies polyvinyl acetate emulsions to the paint industry.

Celanese Venezolana, S. A., has not yet matched progress of the Mexican and Colombian companies, since it is operating in a hard currency country where sizable textile imports have caused severe market fluctuations.

Canadian Chemical and Cellulose Company, Ltd., has excellent growth prospects, according to Mr. Blancke. The mill at Prince Rupert, B. C., originally a producer only of high alpha cellulose for processing into cellulose acetate, has been redesigned so it also can produce paper pulps and dissolving pulps for rayon manufacture. Mill capacity is expected to be expanded to nearly 500 tons of pulp per day.

Textile Division Operations

Included in future textile division operations, Mr. Blancke noted, is the conversion of some facilities to meet the expanding demand for "Arnel," the company's new triacetate fiber.

Since introduction to the trade two years ago, Mr. Blancke said, "Arnel" has achieved gratifying market acceptance, being now employed in more than twenty fabric constructions and used by more than 300 garment manufacturers. Combining luxurious appearance and ease-of-care characteristics, this apparel fiber seems destined for an important position among synthetic textiles, he said.

Other recent developments cited as indicative of acetate's significant present position and future potential were:—Adoption of Fortisan-6, high-strength saponified acetate, for various industrial uses; recent emergence of new markets for acetate such as blankets, carpets, mattress battings, upholstery and cigarette fiber tow, and the strong trend to non-woven fabrics, in which acetate is readily adaptable, for apparel, home furnishings and other end-uses.

In addition to progress by Celanese textiles, prospects appear bright for continuing growth in the chemical, plastics and foreign divisions of the company, the president reported.

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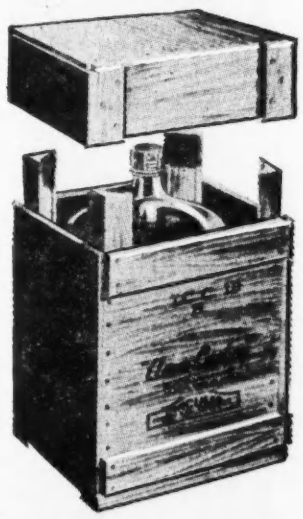

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Petroleum Derivatives

Things looked a bit brighter in this market last week. Buying interest was on the increase all along the line. Such inquiry and order placement was not feverish or spectacular, but did indicate a modest increase in business volume for September, with October expected to be still better.

The wax business in both microcrystalline grades and in paraffin has been quite good over the whole Summer season, and September kept to high levels so far. Some of the September activity could, it was felt, be attributed to building up of inventories on the part of consumers before the effective date of the ½ cent per pound price increase, October 1, on crude scale and on the laminating grades of microcrystalline waxes. Propane was advanced ½ cent per gallon effective September 17, in group 3.

The aliphatic solvents this week showed very definite indications of picking up in business volume from their seasonal Summer slump, but they were not off to as good a start as the straight and partial aromatics. The lone exception to this being toluol, where the supply position was so long that considerable improvement in business would have to be had before it could be noticed.

Price Trends

Advanced
None.

Reduced
None.

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Sept. 16, 1955
105.47	105.47	105.47	104.32

For Current Prices see Page 9

Solvents and Diluents

Mineral Spirits—Trading was a bit more brisk last week, as various consuming industries picked up buying interest with the approach of Fall. This upturn of sales volume, just now beginning, was expected to continue over the next few weeks, until a normal Fall season level is established. Prices were firm and unchanged from levels which have prevailed over recent weeks. The paint industry accounted for the major share of increasing business volume, due to a stepped up output of both trade sales and industrial protective coatings.

Partial Aromatics—Prices were unchanged, and expected to hold for the balance of the year. September business was said to be showing a definite increase over July and August levels, but had not yet reached the substantial levels that were expected to develop later this month and early in October. There was a healthy pick up noted, not only from the paint industry but from other directions, as well.

Supplies were quite abundant, and the market on partial aromatics was highly competitive. There were many makers with similar or near similar products competing for the available market, some of them shipping quite long distances. This made available low cost solvency that tended to put a competitive pressure on the straight aromatic solvents.

Toluol—This market was not good, still suffering from the conditions of oversupply on the one hand, and keen competition from the partial aromatic solvents available for comparable solvent end uses. Consequently, makers faced a continual disposal problem, moving it either into export or letting it run into gasoline.

VM&P Naphtha—This, and related aliphatic naphtha of fast evaporation rate used in the protective coating industry for manufacture or application of spray finishes, was definitely on the upgrade in demand. September business was showing an improvement over the two previous months, and the rate of gain was expected to accelerate in the weeks ahead. Supplies were quite adequate to take care of all needs.

While much of the improved outlook stemmed from the automotive and hard goods field, via the paint industry, end-uses in other quarters were said to also be showing improved buyer interest.

Xylol—Dealers reported continued good sales for this commodity last week as sources reported production levels remaining firm. Demand, hightened by rising industrial activity, is expected to further prompt the market into motion. Though price level shifts are not anticipated it was noted that the spot xylol market has been strong for some time. Even the early summer months, which was a trying time for many petroleum derivatives, was a healthy period for xylol, both sales and production-wise.

LPG's

Producers of propane and related gases were urging consumers to buy now and fill up all tanks, so that their suppliers in turn could thus empty out their tanks and have them refilled before the cold weather sets in. This practice was being promoted by the industry as a hedge against possible tight supply spots this Winter if we have a cold season such as last year. Heavier than normal consumption due to the cold weather last year led to considerable amounts of localized shortages from time to time. To some extent, these could have been avoided by a heavy stocking up policy all along the line prior to the setting in of cold weather, the industry said.

Propane—Prices advanced ½c. per gallon effective September 17. In group 3 this makes the price 5c. per gallon.

Waxes

Microcrystalline—Business volume was quite good, and this month business with contract buyers was likely to end up exceptionally good in view of the price rise effective on contract Oct. 1 for the laminating grades, an upward adjustment of ½ cent per pound. Buyers will tend to stock up prior to the price increase, all of which will make trading in October correspondingly light, it was felt in most quarters.

Paraffin—Refined grades continued to move in excellent volume to all sections of consuming industries. Trading in crude scale was likewise good as buyers tended to up their inventory levels as much as feasible in view of the contract price increasing ½ cent per pound October 1.

Miscellaneous

Crude Oil—The amount of domestic crude petroleum that will be consumed or exported in September, 1956, is estimated by the Bureau of Mines, United States Department of the Interior, at 7,093,000 barrels daily compared with 7,110,000 forecast for August, 1956. The forecast contains no recommendations as to desirable rates of crude production or of changes in crude stocks. It is an estimate of probable consumption based on actual industry conditions and policies in effect; adjustments for seasonal changes in refined stocks; allowance for the current rate of imports of foreign crude oil and products; and the production of other light oils from natural gas. The forecast includes estimates of a total gasoline demand of 121.0 million barrels in September, a gasoline yield of 43.5 percent and total crude runs of 7,983,000 barrels daily.

Current reports of the industry for the week ended August 31 indicate a decrease in crude-oil production and an increase in crude runs. According to the A.P.I., the daily average output of crude (including lease condensate) was 7,108,000 barrels, a decrease of 19,000 barrels from the preceding week. Daily average crude runs to stills of 8,098,000 barrels were 155,000 barrels above the preceding week, and 456,000 barrels above the week ended September 2, 1955. Runs of foreign crude amounted to 969,000 barrels daily, compared with 945,000 barrels in the preceding week.

Crude Oil Stocks

Stocks of domestic and foreign crude petroleum at the close of the week ended September 1 totaled 278,720,000 barrels, according to data reported by the Bureau of Mines. Compared with the total of 276,907,000 barrels for the preceding week, this represents an increase of 1,813,000 barrels, comprising an increase of 1,751,000 barrels in stocks of domestic crude and an increase of 62,000 barrels in stocks of foreign crude.

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Coal Chemicals

Leading producers announced a 9 cents per pound increase in the price of technical grade 2,6-di-tert-butyl-p-cresol effective October 1 on contract and immediately on spot sales. The hike followed by three months a similar advance in the food or CP grade, which was not changed on this occasion. DBPC was now reported in generally adequate supply, or in greatly improved availability from the low point reached in July. Producers were still not satisfied with current output, however, and were stepping it up urgently.

The key to improved supplies of DBPC appeared to lie in tuning up new production facilities for raw material p-cresol to operation at high efficiency. That goal was reported not far short of attainment last week.

Aniline prices were boosted 1c. per pound on tanklots and an additional 1c. per pound on drum differentials effective immediately in the spot market and October 1 on contract.

Improvement in demand for styrene monomer was noted in the fact that the balance of supply and demand has held steady in recent weeks while production quotas were being restored to levels reached before a major production facility went out on strike in midsummer.

There was a flurry of trade in phthalic anhydride as consumers stocked up ahead of the October 1 deadline on the lower prices still current.

Benzol was not in the tight position anticipated in some quarters as a result of the steel strike, but it was getting good support from the continued good tone in phenol and improving trade in styrene monomer.

The inventory position of toluol was still relatively comfortable in the wake of the steel strike.

The American Iron and Steel Institute reported 46,933,786 net tons of finished steel products were shipped in the first six months of 1956, including 23,626,513 tons shipped in the second quarter. The corresponding figures for 1955 were 41,990,159 tons in the first half and 22,591,844 tons in the second quarter.

Numerous record highs were established this year, the institute noted but of special interest was the decline from 9,612,069 tons (23.9 percent of the total) in first half 1955 to 8,021,305 tons (17.9 percent of the total) in first half 1956 in shipments to the automotive industry.

Institute figures on production of steel ingots and castings measured the effects of the recent strike of steel workers. At the end of six months in 1956, on the eve of the strike, this year's output was running about 5,400,000 tons ahead of the aggregate reported for the same date of 1955. However, production fell to 1,622,163 tons in July this year and 8,148,000 tons in August; and the total for the first eight months this year, 72,377,774 net tons, was appreciably less than the 75,901,793 tons produced by the same date in the previous year. Comparable monthly production figures were 9,594,545 tons in August, 1955, and 9,721,436 tons in June of this year, the last month before the strike.

The institute estimated that steel output in the week ended September 16 would amount to 100.1 percent of theoretical capacity, equivalent to 2,463,000 tons of steel (a production record exceeded in only five previous weeks, all of them in 1956). This figure was compared to output of 2,429,000 tons in the week previous, 2,154,000 tons in the comparable week in August and 2,309,000 tons in the corresponding week in 1955.

Coal Chemicals

Estimated output of coal chemicals recovered from cokeoven operations during the week ending September 16 was as follows:—

Ammonia liquor	lbs.	958,914
Ammonium sulfate	lbs.	40,831,166
Benzol	gals.	3,650,059
Coaltar	gals.	17,940,967
Creosote oil	gals.	695,986
Naphthalene, crude	lbs.	3,882,054
Pyridine, refined	lbs.	13,920
Toluol	gals.	804,250
Xylol	gals.	231,995

PriceTrends

Advanced
None.

Reduced
None.

Comparative Price Indexes
(1949 average)

...k	Prev. week	Last month	Sept. 16, 1955
114.89	114.89	114.89	114.77

For Current Prices see Page 9

Basic Products

Benzol—Demand continued to hold up well last week. The steel strike had not been enough to create a vital shortage, as had been expected in some quarters, but current industrial activity was strong enough to provide a fairly good market for the near-record output of cokeoven benzol in face of continued heavy import of cheap Russian material.

The somewhat more optimistic tone in styrene monomer and continued strength in the phenol market were providing good support.

Creosote—Stocks were still heavy, but producers' long-range prospects were improved. The railroads were beginning to nibble at the stockpiles to renovate track, and better interest has been promoted in farm consumption for fence, silos and outbuildings.

There had been some question whether the steel strike, since it cut railway revenues, might deter work on the roadbeds. Evidently, the strike had not lasted long enough to have a serious effect in this respect. It did reduce stocks of creosote appreciably, but production last week was making up for the lost time.

In contrast to the rather weak demand for crossties, demand for creosote for treatment of poles, lumber and piling has been well sustained.

Cresols—The market position of cresols remained essentially unchanged from that of recent weeks.

The meta-para fraction, for long in tight supply, was now available in adequate quantities.

Ortho, something of a marketing problem up until a few months ago, was in balance.

The one remaining defect, a critical shortage of p-cresol, was being remedied as fast as production facilities could be put into efficient operation.

Prices were unchanged and on very firm ground.

Cresylic Acid—The market position on all grades falling into fairly tight specifications was excellent. Demand was brisk, and some dealers reported tight spots locally. In more general terms, however, consumers were receiving adequate shipments with little or no delay.

Naphthalene—Fair demand was sustained, and producers looked to production of new model automobiles in October and November for at least some improvement. The tone at this time was not strong enough to provide a market for imported material offered on a spot basis. Domestic prices were regarded as being on a solid footing.

The outlet by way of sales of moth balls was seasonally slow and not expected to offer much better support for this market for another six months.

Phenol—Demand continued strong as cokeoven material was made available again last week at the pre-strike rate. The outlet for manufacture of resins was particularly avid.

Some material from petroleum sources was offered at ½c. per pound below the market in some quarters, but there was still no evidence that this was in sufficient quantity and of tight enough specifications to figure as a vital market influence.

Picolines—Trade continued vigorous in all the isomers.

The gamma moved particularly well.

Coal Chemicals

b-Picoline was in balance, with sales reported in good volume.

There was a ready market for what remained from the relatively large quantity of a-picoline that was not being channeled through captive outlets.

Pitch—Business was reported brisk last week as producers prepared to boost prices effective October 1 of leading industrial grades. The increase would amount to $4 per ton generally.

Quotations on the larger volume grades in carlots after the increase goes into effect will be $44 per ton for fibre pitch, $40 per ton for carbon and industrial pitch and ranging from $40 to $42 per ton for pitch for the aluminum industry, according to distillation range, as follows:—

In Fahrenheit degrees, from 191 on up, $40 per ton; from 170 to 190, $40.50 per ton; from 150 to 170, $41 per ton; from 140 to 150, $41.50 per ton, and from 125 to 140, $42 per ton.

Also up $4, core pitch will be quoted at $36.50 per ton, and target pitch will be listed at $38 per ton.

Pyridine—Trade has been improved moderately in the past two or three months, producers reported, but the imbalance between domestic production and heavy imports, on the one hand, and limited demand, on the other, have weakened the domestic price position.

The long-standing price of 75c. per pound was still quoted officially last week. But imported material was commonly offered at 45c. per pound and had now been reported as low as 40c. per pound in some instances.

Toluol—The stock position was still fairly comfortable as a result of the recent steel strike, and producers were banking on stepped up automobile production in October and November to blunt the effect of very heavy cokeoven output and the deteriorated market condition in Europe. Current demand was substantially unchanged, though some seasonal improvement was noted.

Intermediates

Aniline — Major producers announced an increase in prices amounting to 1c. per pound on tanklots and an additional 1c. per pound in drum differentials on lesser amounts effective immediately on spot and October 1 on contract.

The new schedule lists tanklots at 21c. per pound, carlots and truck loads at 23c. per pound and less carlots and truck loads at 24c. per pound, f.o.b. shipping point, freight allowed. West Coast prices were quoted 2c. per pound higher.

One producer listed tankwagon loads, minimum 2,000 gallons, at 21½c. per pound, same terms.

Anthracene—Tone of this market continued poor. Demand was unimproved, and foreign competition continued unrelenting. Prices were steady.

Carbazole—Trade in carbazole was all but dead, a situation that has prevailed in this quarter for some years. Prices of long standing were unchanged.

2,6-Di-tert-Butyl-p-cresol — The chief producers announced price increases amounting to 9c. per pound across the board for the technical grade effective at once on spot business and October 1 on contract. The CP or food grade, which was advanced 9c. per pound effective last July 1, remained unchanged on this occasion. It was noted that the technical grade had not been advanced in years.

The tanklots price was hiked from 86c. to 95c. per pound.

Production has lagged most of the time in recent months, reaching a low relative to demand in July. A new production facility for p-cresol was slated to go on stream in August and was just now approaching an efficient level of operation. Output of DBPC has improved markedly since July. It was still somewhat short of quota goals, however, whether due to the delay in expansion of p-cresol production capacity or to consumption of available p-cresol in manufacture of DBPC itself.

Producers reported that, in general, current delivery commitments were being met, while strong demand has been sustained.

Divinylbenzene—Demand, making due allowance for seasonal factors, was described as steady to fairly strong.

Peak seasonal demand was attained in May and June, and, since the chief outlet for divinylbenzene continued to be for use in manufacture of ion exchange resins, a seasonal decline was anticipated through October and November.

Steady but less substantial demand was generated for use in promoting cross-linkage in manufacture of plastics.

Phthalic Anhydride—Something of a flurry of orders was noted last week that was attributable to attempts to stock up ahead of the October 1 deadline on the current, low prices. The extra activity provided good tone.

Isophthalic acid had by now come onto the market in significant volume. An additional bidder for business in the field of alkyd resins, a mixture of about 87 percent benzoic acid and 13 percent toluic acid, was due to make its market debut late in the current calendar year.

Styrene Monomer—Absolute volume of demand, presently fairly strong, appears to have increased appreciably in recent weeks.

Production was cut back considerably in mid-summer when a labor strike shut down a major production facility. Since the brakes were taken off production some weeks ago, the pressure on available supplies has not diminished.

Industrial activity appeared to be picking up generally, accounting for improved tone in this market in particular.

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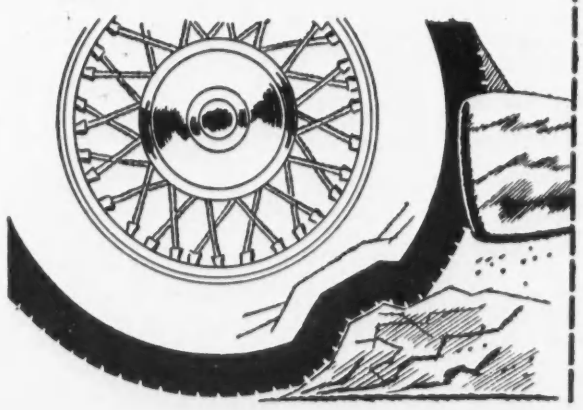

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American Gilsonite Names Allied Asphalt Distributor

American Gilsonite Company, Elizabeth, N. J., has appointed Allied Asphalt & Mineral Corporation, New York, its distributor of all less-carload sales of Barber Gilsonite formerly supplied by American Gilsonite from its Barber, N. J., warehouse.

Allied Asphalt's warehouse stock of Barber Gilsonite will be carried at its plant at Dunellen, N. J. Allied Asphalt has used this plant for thirty years for the manufacture of compounds and plasticizers to specifications. In addition it compounds tailor-made waxes for industrial use.

TVA Is Producing

—*Continued from page 5*

plant food than the usual liquid mixture; liquid fertilizer containing 12 percent nitrogen and 36 percent phosphate—a total plant food content of 48 percent—can be made with superphosphor' acid.

The comparable grade now on t market contains 8 percent nitrogen and 24 percent phosphate. Another important thing about the superphosphoric acid, TVA said, is that due to its higher concentration shipping costs for the strong acid would be substantially less than for phosphoric acid commonly in use.

Another liquid concentrate of interest to TVA is made with ammonium metaphosphate, a new TVA fertilizer. The solid ammonium metaphosphate is 90 percent plant food, but it is difficult to produce in solid form. Experiments show it can be made in solution form more easily and that the resulting liquid is not only concentrated but also stable at low temperatures. Solutions of ammonium metaphosphate contain as much as 52 percent of combined nitrogen and phosphate plant food.

Nat'l Petroleum Council Called to Meet Sept. 28

The National Petroleum Council has been called into meeting September 28 by Walter S. Hallahan, chairman. The meeting was called after a conference with Secretary of the Interior Fred A. Seaton.

Reports from the committee on oil and gas industries manpower; the committee on underground s'orage; and the report on oil and gas communications facilities by the committee on oil and gas emergency defense organization may be presented at the meeting.

Beryllium Contracts Given To 2 Expanding Companies

Atomic Energy Commission has contracted to purchase a million pounds of reactor-grade beryllium metal from the Beryllium Corporation, Reading, Pa., and Brush Beryllium Company, Cleveland, Ohio. Each company will supply 500,000 pounds of the metal on a unit price basis.

Contracts for this purchase were negotiated on the basis of proposals submitted by the companies in response to a general invitation issued by the commission in January.

Beryllium Corporation will establish new production facilities near Reading, from which deliveries are scheduled to begin in mid-1957. Brush Beryllium will built a new plant at Elmore, Ohio, from which deliveries are scheduled to begin in early 1958. Under each contract deliveries will be made over a five-year period at an average cost of about $47 per pound.

The commission's beryllium needs are being met on an interim basis from the production of a government-owned plant at Luckey, Ohio, operated by Brush. The Luckey plant will continue in production until deliveries from commercial sources are sufficient to meet government requirements. The Luckey plant will then be placed in standby status.

In addition to the metal required by the government, quantities of reactor-grade beryllium may be required for privately-financed projects. The commission does not intend to provide beryllium for such projects.

Chemical Makers

—*Continued from page 3*

1955. The rising trend in the reasonably adjusted series shows no sign of slowing down this year, it was stated.

While the aggregate programs of durable goods, firms for 1956 are about the same as reported early this year, there have been some offsetting revisions in individual industries. Both machinery groups, especially non-electrical machinery, have made upward revisions in plans, with increases of one-third or more over 1955 now anticipated.

Nonferrous metal producers are still holding to their earlier programs, which call for almost a doubling of the 1955 expenditures. Currently programmed outlays in the motor vehicle and steel industries, although somewhat lower than originally reported, are still two-thirds and two-fifth higher, respectively, than expenditures last year.

Outlays by non-durable goods manufacturers are now scheduled to be one-fourth greater than they were in 1955, and are a little higher than reported in the 1956 survey. Substantial increases over earlier programs are indicated by the textile, paper and rubber industries, while the already large advance in chemicals has been increased. Petroleum companies' programs are about the same as previously reported, while food and beverage programs have been revised downward.

In the nonmanufacturing sector, mining companies have now scheduled a substantially larger increase than they did six months ago, while the other major industry divisions appear to be maintaining earlier announced programs.

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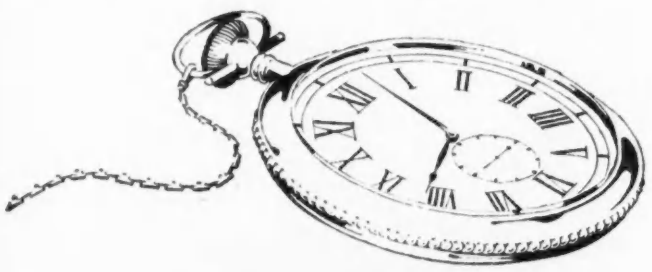

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ASTM to Hear Top Speakers in California

—*Continued from page 7*

speaker whose subject will be "From Pico No. 4 to Petro Chemicals."

W. T. Gunn, director, division of refining, American Petroleum Institute, will be the toastmaster.

Three industry Luncheons will be held tomorrow. At the soils luncheon, Prof. K. B. Woods, head of the school of engineering, Purdue University, and ASTM junior vice-president, will speak on "Soil Explorations for Site Selection and Engineering Design."

The toastmaster will be Paul Baumann, assistant chief engineer, Los Angeles County Flood Control District, Pasadena.

At the wood industry luncheon, O. Harry Schrader, jr., general manager, U. S. Plywood Corporation, will speak on "Increasing Integration in the Manufacture of Forest Products."

At the Industrial Water Luncheon, Thursday, ASTM past president, C. H. Fellows, director, engineering laboratory and research department, Detroit Edison Company, Detroit, Mich., will introduce the guest speaker, Claude K. Rise, Coordinator, Gulf Oil Corp., Philadelphia. The title of Mr. Rice's subject is "Three Is a Vital Number" (The relations of the Public, Government, and Industry in the measurement and abatement of stream pollution).

Also on Thursday will be held the cement and concrete industry luncheon. A. Allan Bates, vice-president, research and development, Portland Cement Association, Chicago, as guest speaker will discuss "Research—and Some of its Relationships to ASTM."

The Paint Industry luncheon also will be held on Thursday. Clyde L. Smith, president of the Federation of Paint and Varnish Production Clubs and president, Vi-Cly Industries, Inc., will be the guest speaker. His subject:—"The Federation and Its Relation to the Paint Industry."

In addition to these luncheons the meeting will include forty-three technical sessions at which more than 200 technical papers will be presented.

One of the important attractions of the meeting will be the exhibit of testing and scientific apparatus and laboratory supplies in the Wilshire Room of the Statler hotel, today through Thursday. Here the latest development in devices for research and testing will be on display. Many will be shown in operation.

SAACI Has

—*Continued from page 7*

for Shell Chemical Corporation's chemical sales division, and Robert C. Hyatt, sales representative for Antara Chemicals, sales division of General Aniline & Film Corporation, New York.

The second panel discussion will deal with "The Value of Communications Between Sales and Management." Moderator will be W. Cameron Caswell, an associate in McKinsey & Co., New York. This is the panel:

George A. Wright, New York district sales manager for Grasselli chemicals department of E. I. duPont de Nemours & Co., Inc.; James K. Watkins, jr., vice-president of Merchants Chemical Company, Inc., New York, and Herbert S. Kishbaugh, sales representative for the Solvay Process Division of Allied Chemical & Dye Corporation, New York.

Third panel discussion of the afternoon will be on "How the Chemical Salesman Can Improve the Re-Seller-Manufacturer Relationship." This discussion will be moderated by Norman E. Siems, assistant sales manager for the Philadelphia Quartz Company, Philadelphia. Panel members will be:

Fred M. Goodwin, vice-president of Thompson-Hayward Chemical Company, Kansas City, Mo.; Roger Lindsay, manager of the technical resale division for Harshaw Chemical Company, Cleveland, Ohio; John O. Logan, vice-president and general manager of the industrial chemicals division of Olin Mathieson Chemical Corporation, Baltimore, Md.; and Sherod B. Scott, director of sales for Wyandotte Chemicals Corporation, Wyandotte, Mich.

Waste Treatment

—*Continued from page 7*

ing of these municipal projects and provide also for a broadened program of research and technical assistance on water pollution problems and for financial assistance to states and interstate agencies in furthering their own water pollution control programs.

In making out the formal applications for construction grants, the applying agency will be asked to provide such information as the following:—

- The kind of project contemplated—i.e., new plant, extension, intercepting sewer, etc.
- The total estimated cost of the project.
- The amount of the federal grant requested.
- Whether the project is in conformity with the state water pollution control plan.
- Whether and in what way the project will conserve water for such purposes as municipal supply, industrial, agricultural and recreational use, propagation of fish and wildlife.
- The constitutional, statutory or charter provisions authorizing the applying agency to construct, finance and operate the facility.
- The source and status of funds to be provided by the applying agency for construction of the project.
- Sources and amounts of funds for maintenance and operation of the project.
- Population to be served by the project.
- Breakdown of estimated cost—i.e., contract, legal costs, engineering fees, etc.
- Legal description of site or plans for site acquisition.
- Project schedule, including advertising for bids, letting of contracts, start and completion of construction.

In addition to the above kinds of information, the applying agency will be asked to submit available engineering material, such as copies of engineering reports and plans and specifications.

Note to Chemists - Purchasing Agents and technical people:
This data sheet is designed to fit into a loose-leaf binder for your convenience.

Laboratory data sheet

RIBOFLAVIN U.S.P.—'ROCHE' Regular and Solutions types
RIBOFLAVIN-5'-PHOSPHATE SODIUM—'ROCHE'

Roche has 3 types of riboflavin for your manufacturing needs

The table below summarizes for quick reference helpful facts about the 3 types of Roche riboflavin. Samples of these products and a technical brochure giving complete information are available without charge. Ask your Roche representative or the Vitamin Division.

Type & Name	Properties and Uses	Solubility	Crystal Micron Size	Melting Point	Moisture Content
RIBOFLAVIN U.S.P. Roche Regular	Density and low electrostatic properties, plus virtual non-hygroscopicity provide easy handling in preparing powdered dietary supplements, pharmaceutical tablets, soft gelatin capsules and dry enrichment premixes.	0.140-.200 gram. per liter (See Note 1)	Under 20	275°-280°C.	0.8-1.5%
RIBOFLAVIN U.S.P. Roche Solutions Type	For use in parenteral solutions which approach or slightly exceed the maximum solubility of B_2. Less likely to crystallize out.	0.120 gram per liter (See Note 1)	Under 20	285°-290°C.	0.2-1.5%
RIBOFLAVIN-5'-Phosphate Sodium-Roche **Theoretical B_2 content: 73%** **Roche product: 70-73%**	Preferred for all solutions. Solubility properties allow high concentrations without use of solubilizers (See Note 2). Better taste; no bitter aftertaste as in riboflavin. Specially valuable for highly concentrated oral and parenteral multi-vitamin solutions (with or without ascorbic acid), elixirs, syrups, water-dispersible multivitamin formulations in gelatin capsules, tablets, lozenges.	Depends on pH (See Note 2)	Very fine crystal	Decomposes above 200°	Small percentage of water of crystallization

Note 1 In water at room temperature after shaking with excess for 24 hours.

Note 2 Solubility in water varies with pH as shown in table at right.

pH	Solubility
3.8	43 mg. per cc.
5.6	68 " " "
7.0	112 " " "

Packaging: In Polyethylene bags. One-kilo tamperpruf metal containers. Larger packings in fibre drums. Small quantities in amber screw cap glass bottles.

Source: Vitamin Division

HOFFMANN-LA ROCHE INC.

Nutley 10, N. J. NUtley 2-5000

Pacific Coast distributor: L. H. BUTCHER COMPANY • San Francisco • Los Angeles • Seattle • Portland Salt Lake City • *In Canada:* Hoffmann-La Roche Ltd., 286 St. Paul Street, West; Montreal, Quebec

Reprints of this advertisement in 8¾" x 11" size are available on request. These can be used in the new Roche loose-leaf catalog, or in any standard 3-ring binder.

Drugs, Fine Chemicals

Tartrates will be advanced 2 cents per pound across the board effective October 1, according to certain producers. Items affected will be tartaric acid, cream of tartar, and Rochelle salt. As usual, it did not appear that tartar emetic would move with the other tartrates. Price action on the latter item is usually individual. Back of the announced price advance is an accumulation of increased raw material and manufacturing costs, which could no longer be absorbed.

The alkaloids were generally quite weak, a market condition which is certainly not new, but which also is not getting any better because of markets lost to other new and synthetically produced drugs. Narcotics were slow in so far as opium and its derivatives were concerned, because over recent years the heavy volume of narcotics business has shunted in the direction of synthetics.

The glum prospects this year presented by the botanical drug supply picture was not yet fully in focus, but the bleak news was that many important large volume items would be scarce and high priced, and some not available as any price.

While trading in molasses could not be described as hardly more than moderate, the market retained the firm tone which has characterized it over recent weeks, and prices again moved up ½ cent per gallon at terminals in New Orleans and New York. The purchase of 1,800,000 gallons of Puerto Rican molasses by United States distributors at 13.75 cents per gallon should be an indication to the feed industry that there is not likely to be any cheap blackstrap available in the near future.

Vitamins were still not very active, but appeared to be moving into a period of greater buying interest, and it was felt that from here on into the Winter the demand curve will swing gradually upward. Prices, meanwhile on vitamins were likely to be maintained at present levels. Antibiotics moved in good volume, and the sulfa drugs were enjoying a well sustained demand that is running in 1956 well ahead of the 1955 level. This was partly due to the multiple sulfa drug method of treatment which has aroused considerable interest.

Aspirin, caffeine and acetophenetidin were moving along well on a business upturn started in late August which looked like it would continue.

Aspirin—The placing of orders for the coming season of headache and cold tablet preparations got underway the last few days of August, and the pick-up in demand was carrying into September at increased rate. Prices were unchanged from those in effect over recent months, and no change was immediately expected.

Atropine Sulfate—Demand was slow, but some improvement in business volume was expected to develop as the season for common colds gets nearer. However, the atropine business had suffered heavy inroads made by new synthetic drugs on the market for the control of body secretions. Prices currently ranged around $2.25 to $2.45 per ounce in lots of 100 ounces, depending upon seller.

Caffeine—Trade was reported as getting somewhat more active buying interest from the pharmaceutical trade, while loosing some interest in the beverage trade. This was nothing more than a normal shift of buying interest seasonally in view of the seasonal consumption patterns on these items. Supplies were said to be quite adequate. Prices were unchanged.

Camphor—The USP powder was firmly quoted at 59 cents per pound for 2,000 pound annual contract amounts, 60 cents for 1,000 pound annual contract amounts, and 61 cents per pound for spot 100 pound fiber drums. Meanwhile, the ½ ounce and 1 ounce tablets, in individually wrapped one pound boxes, was quoted at 90 cents for 2,000 pound, and 91 cents for 1,000 pound, annual contract quantities, while 50 pound spot lots were quoted at 92 cents. Demand was slow to moderate against a quite adequate supply.

Cream of Tartar—Antimony-potassium tartrate will be advanced 2 cents per pound across the board effective October 1, it was announced by a major producer. The price increase is a reflection of accumulated increased costs of raw materials and manufacture which could no longer be absorbed.

Menthol—This market was reported as relatively quiet. Prices varied as to quantity and seller from $6.30 to $6.50 per pound on Brazilian large USP crystals. Supplies were adequate.

Price Trends

Advanced

Molasses, blackstrap, ½c. per gal.

Reduced

Atropine sulfate, 20c. per oz.
Quinine ethylcarbonate, 4½c. per oz.
Hydrobromide, 2c. per oz.
Scopolamine, $4 per oz.
Yohimbine hydrochloride, 50c. per oz.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Sept. 16, 1955
65.86	65.84	65.85	65.49

For Current Prices see Page 9

Molasses—Demand was moderate as it had been over recent weeks, but feed blackstrap continued firm, and prices edged up fractionally at several points. New Orleans was selling at 17 cents per gallon and in New York prices ranged from 17½ to 18 cents, up ½ cent from former levels. East Coast demand was generally slow to moderate.

Beet, citrus, and corn molasses markets were unchanged from levels which prevailed the previous week, and demand was said to be good to strong, against limited supplies. Sales were reported of 1,800,000 gallons of Puerto Rican blackstrap to United States distributors at 13.75 cents per gallon, f.o.b. Puerto Rico.

Penicillin—Domestic consumption held up well. In addition the export of penicillin salts continued to grow this year, substantially above that of last year. The first five months of this year exports ran some 47 percent ahead of the corresponding period of last year. Under WHO purchase agreements, antibiotics must meet certain standards, and in many cases, material shipped from the United States tests as much as 60 percent higher than that shipped from other countries, it was said.

Pyrodoxine Hydrochloride—The market had been quiet on this B_6 item, but with the coming of Fall a definite pick-up in demand was seasonally expected. Supplies were quite adequate. Prices of $375 per kilo were firmly held, and expected to stay at that level for the balance of the year. Imports were not of sufficient volume to adversely affect the domestic market, but they were of some nuisance.

Quindine Sulfate—Prices ranged from 73 to 75 cents per ounce in a quiet market. Supplies were adequate to meet the limited call currently prevailing.

Quinine and Salts—There was little call for the alkaloid. What was moving was quoted at 54 cents per ounce in small quantities. The ethylcarbonate varied in price, depending upon quantity and seller from 59 cents per ounce to 63½ cents. The hydrobromide was quoted at 40 cents per ounce, and the hydrochloride at 35 cents. The bisulfate was listed at 37½ cents per ounce. Prices on the sulfate ranged from 28 cents per ounce for quantities of 1,000 ounces or over, to 29 cents per ounce for less than 1,000 ounces.

Greatest demand was for the sulfate, and the end-use in addition to pharmaceutical uses, which accounted for the largest sales volume was in beverages for the gin and tonic type beverage trade. Quinine was still the favorite bitter, but was begining to meet competition in the beverage trade from the grapefruit bioflavonoid, naringin.

Rochelle Salt — Potassium-sodium tartrate will be advanced 2 cents per pound across the board, effective October 1. Under the new price schedule to then become effective, the powder in carlot quantities will be priced at 42½ cents per pound, 5,000 pound lots will be priced at 43 cents per pound, and smaller lots will be listed at 43½ to 49 cents per pound, depending upon quantity. Back of the price increase, was an accumulation of raw material and manufacturing increased costs which could no longer be absorbed

Salicylic Acid—The USP grade was in quite ample supply, against hardly more than moderate demand early in February. Some improvement was expected in the coming weeks. Prices were firm at 48 cents per pound for the crystals, and at 53 to 55

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Despite nation-wide publicity, no one was able to claim the $25,000 reward offered by "Real-Kill" for an insect that could not be destroyed by their new spray.

The manufacturer has now awarded the purse to Walter Winchell on behalf of the Damon Runyon Cancer Fund.

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Drugs, Fine Chemicals

cents per pound for the powder, depending upon the quantity.

Scopolamine Hydrobromide — Material moved in this market at prices ranging from $12 to $16 per ounce, varying as to quantity and seller. The market was generally quiet, and supplies adequate.

Sodium Salicylate—Prices ranged from 74 to 76 cents per pound, depending upon quantity for the USP powder. Demand was described as still slow, since the seasonal slump in business had not as yet reached the point of recovery, which was expected to develop this Fall.

Tartaric Acid—Prices were slated to advance 2 cents per pound effective October 1, as a reflection of increased raw material and manufacturing costs. The new schedule taking effect for the fourth quarter will place domestic production at 49 cents per pound in carlot quantities, 49½ cents for 10,000 pound lots, and smaller lots ranging from 50 cents per pound upward, depending upon quantity.

Vitamin A—Business volume was said to be well sustained, and some sources felt that they noted a September improvement over the slow level of trading experienced in July and August. Supplies were quite adequate, and so was production capacity. The production of synthetic vitamin A, as well as certain other vitamins, from acetone was a lower cost method of production from abundantly available raw materials, which will be a commercial reality when new plants under construction are completed. Increased demand was expected as the Winter months get closer.

Yohimbine Hydrochloride — Current prices, varying as to quantity and seller ranged from $3.75 to $4.25 per ounce. Demand was virtually nil, with buying inquiry reported to be no more than occasional.

Botanicals

Scarcity, a tight supply position, and high prices represented the best description of what the botanical drug market outlook was for the coming year. In foreign botanicals adverse weather conditions were in part responsible for the scarcity of new crop botanicals.

In this country there was no such adverse weather conditions to affect the crop. The crop was there, but not sufficient available labor to harvest it. Accordingly, the amount that was harvested will fall far short of meeting the needs for the coming year on a great number of important items.

Those who could be persuaded to harvest some of the new crops, which is really hunting and gathering the items, had very high priced ideas as to the value of the products of their labor. This will lead to a double high price influence. First the high price that had to be paid in primary markets, upping replacement costs, and secondly, the still higher prices that will develop on trading, as it becomes more and more apparent in the trade that there is not enough to go around.

Such items as cascara bark, which is a large volume domestic botanical drug will be in short supply because those who normally gather the drug in their spare time to earn extra money, feel the flush of current prosperity and are not disposed to bother to go looking for the bark, or to cut it and bring it to market.

Golden seal root, an item which moves in considerable volume during the course of the year, will be quite short this year for no other reason than that the new crop was not harvested in sufficient amounts to meet the needs of buyers over the next twelve months. Cherry bark, ladyslipper and many other botanicals will be short, high priced, and some of them not available at any price.

Senega root was another item of considerable commercial interest which will be quite scarce this coming year. As yet, the trade at consuming levels had not as yet become particularly concerned over the impending shortages, and appeared to be in no hurry to cover their requirements, but the feeling was expressed in certain quarters that those who aren't moved to action may well be left "out in the cold" later in the year when supplies become deleted.

Chiris Sets Up Division, Makes Personnel Changes

Antoine Chiris Company, New York, has added Frank C. Kendall as head of its newly organized drug and cosmetic sales division. Mr. Kendall in recent years has been general purchasing agent for Warner-Hudnut, Inc.

William F. Nichol has been named head of perfumery research for cosmetic purposes in the firm's New York laboratory. Morgan Gaffney has been appointed west coast representative, with headquarters in Los Angeles.

Penicillin in Milk

—*Continued from page 3*

nually in the treatment of mastitis in dairy cows, and penicillin is perhaps used in the greatest volume.

Another important factor on the economic side of the problem is the losses suffered by cheese makers when their milk supplies are contaminated with the drug. Even the presence of a small amount of the drug in the milk has prevented the necessary chemical reaction to take place in the making of cheese, and the entire batch often must be discarded as a total loss to the manufacturer.

From the public health standpoint, it has been shown that unfavorable reactions have developed in consumers of fluid milk who are sensitive to the drug. A number of letters have been received by the FDA indicating concern over the situation, officials reported, and in one or two instances the reactions were serious.

During the past three years, FDA has made three surveys of the fluid market milk to determine its content of antibiotics. In the first survey 3.2 percent of ninety-four samples contained penicillin. In the second survey 474 samples were tested and 11.6 percent were found to contain penicillin. The third survey just completed of 1,706 samples disclosed penicillin in concentrations of 0.003 to 0.550 units per ml. in 5.9 percent of the samples examined.

In the discussions with the panel it was brought out that while penicillin is the drug chiefly used in the treatment of mastitis other so-called broad spectrum antibiotics could as well be used without the same public health problem that comes from using penicillin. At least, it was stated, there has been no evidence thus far that milk from cows treated with streptomycin or one of the other broad spectrum antibiotics has produced unfavorable reactions among consumers.

Parke, Davis

—*Continued from page 4*

months to better meet that obligation. In April, 1955, the firm opened new Canadian sales headquarters in Toronto; then established new branches at Edmonton and Vancouver last January. Parke-Davis also has branches in Montreal and Winnipeg.

Mr. Loynd, who headed a group of top Parke-Davis executives from Canada and the United States at the ceremonies, said Brockville was selected from among fifteen other locations as the site for the new laboratories.

George C. Shannon, superintendent of the new laboratories and a native of nearby Prescott, Ont., escorted the guests through the new facilities following the ceremony.

The laboratories, among the most modern in Canada, occupy twenty acres and have 150,000 square feet of floor space. The firm constructed Canada's first pharmaceutical laboratories at Walkerville, Ont., in 1886.

Hercules Planning

—*Continued from page 4*

fits into the forestry resources conservation policies of the Mexican government.

Thousands of acres (hectares) of cut-over woodland are available for stump removal. Once the stumps are removed, this currently useless land is ready for agricultural or reforestation programs.

Due to conservation measures imposed by the Mexican government to protect forestry resources, the lumber industry, which formerly was the chief source of employment in this area, has not been able to offer full-time work.

When the new Corbu plant is in full operation late in 1957, year-round employment will be available for an estimated 1,000 men drawn from that area in connection with the supply of raw materials for the plant and the plant operation itself.

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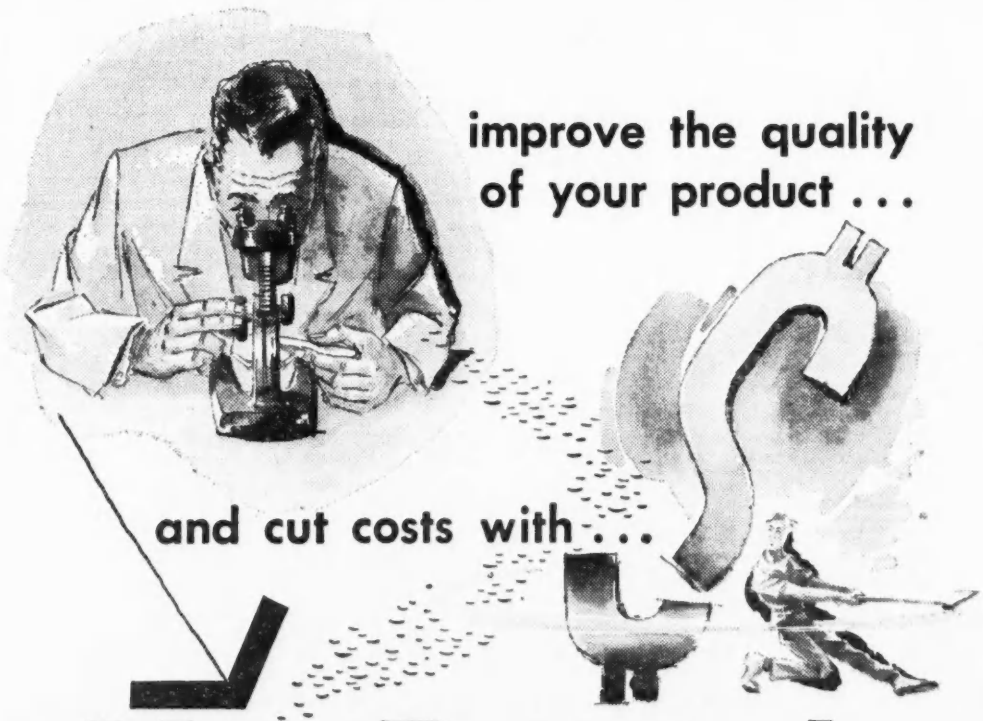

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AMMONIUM CHLORIDE—100 bgs, Chemical Manufacturing Co, Liverpool
PERSULFATE—100 dms, Riches Nelson, Rotterdam
AMYRIS OIL—2 dms, John D Walsh Co, Port Au Prince
1 dm, Lautier Fils Inc, Port Au Prince
4 dms, Dodge & Olcott, Port Au Prince
ANILINE DYES—3 dms, Heemsoth Kerner, Liverpool
7 dms, Ciba Co, Rotterdam
24 dms, Sandoz Chemical Works, Havre
12 dms, Ciba Co, Bremerhaven
70 dms, Geigy Chemical Corp, Bremerhaven
33 dms, C A Haynes, Hamburg
62 dms, Hensel Bruckmann & Lorbacher, Hamburg
ANNATTO SEED—234 bgs, Irving Trust Co, Callao
35 bgs, Foreign Domestic Distributors, Callao
160 bgs, Marcel Calvet, Ciudad Trujillo
ANTIMONY—48 cs, Trieste
ARSENIC, WHITE—68 bbls, American Smelting & Refining Co, Tampico
ASCORBIC ACID—10 cs, Parke Davis Co, Sydney
BARBASCO ROOT—112 bls, Astoria Panamericana, Callao
BARIUM SULFATE—100 dms, Picker X-Ray Corp, London
50 cs, Picker X-Ray Corp, London
BEESWAX—20 bgs, Marcel Calvet, Ciudad Trujillo
35 bgs, Reaud Geck Corp, Ciudad Trujillo
100 bgs, Chemical Bank, Rijeka
26 bgs, Frank B Ross, Tampico
22 bgs, Mutchler Chemical Co, Havana
179 pkgs, Manufacturers Trust Co, Assab
43 bgs, Puerto Plata
46 bgs, Port Au Prince
26 bgs, Havana
BENZOIC ACID—15 dms, F L Kraemer, Hamburg
GUM—12 cs, Meer Corp, Singapore
BERGAMOT OIL—5 cs, Messina
BISMUTH—2 cs, Cerro de Pasco Corp, Callao
BLEACHING POWDER—406 dms, Chemical Manufacturing Co, Liverpool
BONE—270 bgs, Wilson & Co, Brisbane
122 bgs, K Mayer & Co, Brisbane
BRENTHOL—1 dm, Heemsoth Kerner, Liverpool
BUCHU LEAVES—8 bls, Meer Corp, Capetown
CADMIUM—220 cs, Intercontinental Metal Corp, Genoa
CALCIUM LACTATE—75 kgs, Gallard Schlesinger, Rotterdam
PHOSPHATE, DIBASIC—660 bgs, Antwerp
CANDELILLA WAX—617 bgs, Tampico
CAPSICUM—310 bgs, Mombasa
CARAWAY OIL—10 dms, Rotterdam
SEED—200 bgs, Hoger Co, Rotterdam
100 bgs, Rotterdam
CARNAUBA WAX—67 bgs, Frank B Ross, Fortaleza
89 bgs, J H Schroder, Fortaleza
266 bgs, National City Bank, Fortaleza
896 bgs, D Levin, Bahia
150 bgs, Chase Manhattan Bank, Tutoia
188 bgs, Biddle Sawyer Corp, Tutoia
150 bgs, Balfour Guthrie, Tutoia
150 bgs, Cornelius Wax Refining, Tutoia
733 bgs, River Plate Corp, Tutoia
176 bgs, Wm Diehl & Co, Tutoia
1,250 bgs, National City Bank, Tutoia
914 bgs, Strahl & Pitsch, Tutoia
22 bgs, Wm Diehl & Co, Fortaleza
530 bgs, Salvador
CASEIN—500 bgs, National City Bank, Buenos Aires
500 bgs, Tupman Thurlow, Buenos Aires
2,000 bgs, Pacific National Bank, Melbourne
1,000 bgs, Buenos Aires
CASHEWNUT SHELL LIQUID—204 tons, Irvington Varnish & Insulator Co, Cochin
CASSIA—240 bls, Borneo Sumatra Trading Co, Rotterdam
2,039 pkgs, Rotterdam
CASTOR BEANS—762 bgs, Chemical Bank, Port Au Prince
101 bgs, Chemical Bank, Cape Haitien
300 bgs, Chase Manhattan Bank, Jermie
120 bgs, Chemical Bank, Jermie
393 bgs, Chemical Bank, Gonaives
3,334 bgs, Spencer Kellogg, Bahia
3,386 bgs, Salvador
OIL—567 tons, Baker Castor Oil Co, Bombay
CELERY SEED—37 bgs, C M Van Sillevoldt, Bombay
CHESTNUT EXTRACT—1,000 bgs, Barkey Importing Co, Genoa
CHLORINATED RUBBER—200 bgs, C M C Chemicals Inc, Liverpool
CINNAMON QUILLS—150 bls, Fritzsche Bros, Colombo
CITRONELLA OIL—25 dms, Nordo Essential Oil & Chemical Co, Keelung
50 dms, Melanol Corp, Keelung
8 dms, George Uhe Co, Keelung
50 dms, Keelung
COALTAR DYES—24 dms, C A Haynes, Havre
9 dms, Hensel Bruckmann & Lorbacher, Rotterdam
18 dms, Rotterdam
20 dms, Antwerp
COCOA BUTTER CAKE—1,667 bgs, Woodward & Dickerson, Bahia
COCONUT OIL—1,012 tons, American Trust Co, Cebu
440 tons, American Trust Co, Zamboanga
31 dms, Procter & Gamble, Manila
COCONUT OIL—293 tons, Manila
FATTY ACID—22 dms, Carter Products Inc, Liverpool
COD OIL—100 dms, Ottol Oil Co, Bergen
CODLIVER OIL—325 dms, Arista Oil Products Co, Alesund
265 dms, Eelsingh & Lugtigheid, Bergen
COPAL GUM—263 bgs, O G Innes Corp, Matadi
250 bgs, S Winterbourne & Co, Matadi
833 bgs, Archer Daniels Midland Co, Matadi
CORNSTARCH—560 bgs, Universal Transcontinental Co, Rotterdam
100 bgs, Geismar & Co, Rotterdam
COUMARIN—20 dms, Lo Curto & Funk, Havre
CREAM OF TARTAR—800 bgs, Nylos Trading Co, Genoa
100 bgs, Bank of N Y, Naples
m-CRESOL—50 dms, D C Andrews, Glasgow
m-p-CRESOL—54 dms, Koppers Co, Gothenburg
CRESYLIC ACID—29 tons, H A Gogarty, London
905 dms, H A Gogarty, Liverpool
CUTTLEFISH BONE—140 cs, Guaranty Trust Co, Kobe
290 cs, Guaranty Trust Co, Venice
DAMMAR GUM—140 bgs, S Winterbourne & Co, Singapore
50 cs, S Winterbourne & Co, Singapore
DEXTRIN—777 bgs, Guaranty Trust Co, Rotterdam
955 bgs, Rotterdam
DIVI DIVI—1,115 seroons, Curacao Trading Co, Puerto Plata
EARTH COLORS—1,350 bgs, Naftone Inc, Rotterdam
846 bgs, Reichard Coulston, Larnaca
EUCALYPTUS EXTRACT—25 dms, National Bank of Australia, Melbourne
OIL—3 dms, Antwerp
FISHLIVER OIL—19 dms, J D Smith Interocean, Yokohama
8 dms, Arista Oil Products Co, Yokohama
21 dms, Interocean Chemical & Minerals Corp, Yokohama
FISHMEAL—632 bgs, Marine & Animal By Products Corp, Paita
FLUORSPAR—200 bgs, Mains Metal Corp, Liverpool
FUEL OIL—333,325 bbls, Esso Export Corp, Las Piedras
169,591 bbls, Paragon Oil Co, Tampico
10,000 bbls, Asiatic Petroleum Corp, Curacao
102,800 bbls, Paragon Oil Co, Curacao
110,702 bbls, Esso Export Corp, Caripito
129,457 bbls, Central Petroleum Corp, Punta Cardon
136,094 bbls, Metropolitan Petroleum Corp, Curacao
FURFURAL—889 tons, E I Dupont De Nemours & Co, La Romana
GALL—2 dms, Millgate Chemicals Inc, Brisbane
3 dms, F J Benkart & Co, Vera Cruz
OX—3 dms, Van Gelder Fanto Corp, Hamburg
4 dms, Sydney
SHEEP—4 dms, Millgate Chemicals Inc, Melbourne
GALLNUTS—135 bgs, Meer Corp, Lattakia
GELATIN—50 bgs, T M Duche & Sons, Rotterdam
40 dms, Hensel Bruckmann & Lorbacher, Rotterdam
335 bgs, T M Duche & Sons, Antwerp
GINGER—53 bgs, Kellys America Ltd, London
GLUE—350 bgs, Jung Forwarding Co, Liverpool
STOCK—473 bls, Brown Bros, Barranquilla
GLYCERINE—200 dms, Mitsubshi International Corp, Yokohama
460 dms, Mitsubshi International Corp, Yokohama
GLYCOL MONOSALICYLATE—15 dms, Havre
GRAPHITE—750 bgs, Asbury Graphite Mills, Colombo
250 bgs, Joseph Dixon Crucible Co, Colombo
250 bgs, Davies Turner & Co, Colombo
13 bgs, John Potter & Co, Havre
GUAR GUM—2,262 bgs, Stein Hall & Co, Bombay
3,955 bgs, Stein Hall & Co, Karachi
GYPSUM—15,805 tons, National Gypsum Co, Halifax
5,462 tons, U S Gypsum Co, Little Narrows
320 bgs, Hammill & Gillespie, Liverpool
IODINE, CRUDE—120 kgs, North Atlantic Fertilizer & Chemical Co, Yokohama
IRON BLUE—53 dms, Van Oppen & Co, Liverpool
CARBONYL—54 dms, Hensel Bruckmann & Lorbacher, Rotterdam
OXIDE—700 bgs, Naftone Inc, Bremen
KARAYA GUM—736 bgs, Stein Hall & Co, Bombay
303 bgs, Wernet Dental Manufacturing Co, Bombay
61 bgs, Colony Import & Export Corp, Bombay
501 bgs, Morningstar Nicol, Bombay
96 bgs, Tragacanth Importing Corp, Bombay
LACTOSE—225 dms, Chas L Huisking & Co, Liverpool
71 bgs, Frank Samuel & Co, Rotterdam
LAURIC ACID—178 dms, Wallace & Tiernan, Rotterdam
LAVANDIN OIL—3 cks, A Verley & Co, Marseille
LEMONGRASS OIL—63 dms, Lo Curto & Funk, Cochin
18 dms, George Uhe, Co, Cochin
28 dms, Givaudan Corp, Cochin
6 dms, George Lueders & Co, Cochin
45 dms, Volkart Bros, Cochin
15 dms, Hoffman La Roche Inc, Port Au Prince
LIME OIL—3 dms, Nordo Essential Oil & Chemical Co, Port Au Prince
1 dm, Florasynth Lab, Port Au Prince
1 dm, Citrus & Allied Essential Oil Co, Santiago
LITHARGE—400 dms, Eagle Picher Co, Tampico
LOCUST BEAN GUM—23 bbls, J Einstein Co, Genoa
MACE—17 bgs, Kellys America Ltd, London
14 cs, Potterdam
MAGNESITE, CALCINED—160 dms, General Cable Corp, Liverpool
MAGNESIUM TRISILICATE—50 cks, Reheis Co, Liverpool
MALALEUCA OIL—3 dms, Sydney
MANDARIN OIL—4 cs, Messina
MANGANESE—36 cs, D C Andrews, Liverpool
MANGROVE BARK—700 bgs, Knight Smith & Co, Zanzibar
MENTHOL—65 cs, P A Dunkel, Santos
MERCURY—50 flks, Silver Shining Co, Tampico
75 flks, Lo Curto & Funk, Tampico
220 flks, Hanover Bank, Leghorn
MOLASSES—1,445 tons, American Molasses Co, Havana
MONTAN WAX—134 bgs, Hamburg
MYROBALANS EXTRACT—200 bgs, River Plate Corp, Glasgow
NAPHTHOL—20 dms, Atlantic Chemical Manufacturing Corp, Rotterdam
3 dms, Hensel Bruckmann & Lorbacher, Hamburg
NICKEL CHLORIDE—143 bgs, Hamburg
NUTMEG—248 bgs, Dodge & Olcott, Tandjong Priok
OCOTEA CYMBARUM OIL—22 dms, Kane Import Corp, Itajai
OLIVE OIL—106 dms, Unanue & Sons, Buenos Aires
53 dms, Atlantic Bank of N Y, Buenos Aires
122 dms, First National Baltimore, Seville
OURICURY WAX—334 bgs, Salvador
PALM OIL—417 tons, Balfour Guthrie, Boma
75 dms, Matadi
PALMKERNEL OIL—301 tons, Balfour Guthrie, Matadi
46 dms, B M T Commodity Corp, Rotterdam
PAPAIN—28 cs, Kellys America Ltd, London
61 hf chts, Chas L Huisking & Co, Colombo
2 cs, Chas L Huisking & Co, Tanga
107 cs, Chas L Huisking & Co, Mombasa
12 cs, Dares Salaam
45 cs, Mombasa
PATCHOULI LEAVES—2 bls, Singapore
OIL—50 dms, Magnus Mabee & Reynard, Penang
PEATMOSS—1,500 bls, E J Lang, Bremen
990 bls, Gellco Inc, Bremen
1,000 bls, Lewis Intern Co, Hamburg
3,000 bls, J E Bernard, Hamburg
1,000 bls, Premier Peatmoss Corp, Hamburg
2,000 bls, Marine Midland Trust Co, Bremen
1,000 bls, C Fafard, Bremen
500 bls, National Distributors, Bremen
750 bls, Trans Sphere Trading Corp, Bremen
3,000 bls, E Dunwoody, Bremen
3,250 bls, Ascot Peatmoss Corp, Bremen
1,000 bls, Bruco Peatmoss Corp, Bremen
4,570 bls, Premier Peatmoss Corp, Bremen
500 bls, Lewis Inter Co, Bremen
400 bls, C Gastmeyer, Rotterdam
PEPPER, BLACK—440 bgs, George Uhe Co, Cochin
320 bgs, Ludwig Mueller, Cochin
80 bgs, Shippers Produce Corp, Cochin
320 bgs, Peter Commercial Corp, Cochin
1,280 bgs, Otto Gerdau, Cochin
240 bgs, Virchand Panachand, Cochin
160 bgs, J F Frank, Cochin
160 bgs, Irving Trust Co, Cochin
288 bgs, Volkart Bros, Cochin
1,800 bgs, A G Dunn, Cochin
560 bgs, Mincing Trading Corp, Cochin
160 bgs, Mutual Spice Co, Cochin
360 bgs, A C Israel, Cochin
160 bgs, Borneo Sumatra Trading Co, Tandjong Priok
246 bgs, Internatio Rotterdam, Tandjong Priok
182 bgs, J H Schroder, Singapore
80 bgs, V A Cordovi, Colombo
140 bgs, Otto Gerdau, Singapore
80 bgs, Plantation & Colonial Products, Cochin
80 bgs, Internatio Rotterdam, Cochin
80 bgs, Borneo Sumatra Trading Co, Cochin
70 bgs, A G Dunn, Singapore
350 bgs, Singapore
80 bgs, Cochin
RED—53 bgs, Mombasa
93 bgs, Louis Furth, Vera Cruz
PETITGRAIN OIL—9 dms, John D Walsh Co, Buenos Aires
PETROLEUM, CRUDE—204,210 bbls, Esso Standard Oil Co, La Salina
601,000 bbls, Esso Standard Oil Co, Puerto La Cruz
215,000 bbls, Socony Mobil Oil Co, Puerto La Cruz
POLLACKLIVER OIL—25 dms, Interocean Chemical & Minerals Corp, Yokohama
75 dms, Silmo Chemical Corp, Yokohama
100 dms, National City Bank, Yokohama
30 dms, Wilbur Ellis Co, Yokohama
75 dms, R S Reade, Yokohama
100 dms, J D Smith Interocean, Yokohama
POLYVINYL ACETATE RESIN—133 cs, Colloids Inc, Kobe
POPPY SEED—100 bgs, Rotterdam
POTASSIUM FERROCYANIDE—500 bgs, Haras Co, Rotterdam
PSYLLIUM SEED—67 bgs, Meer Corp, Bombay
HUSKS—186 bgs, River Plate Corp, Bombay
250 bgs, S B Penick & Co, Bombay
PYRETHRUM EXTRACT—5 dms, First National Minneapolis, Mombasa
60 dms, P H Petry, Mombasa
32 dms, Mombasa
QUEBRACHO EXTRACT—1,325 bgs, Barkey Importing Co, Buenos Aires
1,062 bgs, River Plate Corp, Buenos Aires
QUINIDINE SULFATE—32 dms, Lo Curto & Funk, Hamburg
RADIUM ELEMENT—1 cs, Radium Chemical Co, Antwerp
RAUWOLFIA ROOT—170 bgs, P H Petry, Matadi
RHUBARB ROOT—92 bgs, Meer Corp, Bombay
ROSE BUDS—160 bgs, W Mahenke, Casablanca
RUM ETHER—2 dms, Lo Curto & Funk, Rotterdam
RUTILE SAND—5,175 bgs, Metal Traders Inc, Brisbane
1,000 bgs, Sydney
RUTIN—12 bgs, K B Rosen & Co, Sydney
SACCHARIN—15 dms, Levant & Co, Rotterdam
SANDALWOOD—100 bgs, George Lueders & Co, Bombay
SARSAPARILLA ROOT—85 bls, Tampico
SHELLAC—68 bgs, F H Paul & Stein Bros, Hamburg
220 bgs, Hamburg
SOAP BARK—142 bls, S B Penick & Co, San Antonio
SOD OIL—25 bbls, G E Byford, Antwerp
SODIUM ALGINATE—20 dms, Stein Hall & Co, Glasgow
ALUMINATE—300 bgs, Chemical Manufacturing Co, Liverpool
ARSENATE—120 dms, Harry Dixon & Sons, Glasgow
CYANIDE—1,117 dms, Chemical Manufacturing Co, Liverpool
GLYCEROPHOSPHATE—3 dms, Liverpool
HYDROXYGINAMATE—3 dms, Lo Curto & Funk, Havre
CHLORITE—110 dms, Hamburg
PETROLEUM SULFONATE—4 cs, Hammel Riglander & Co, Havre
SILICOFLUORIDE—500 bgs, Marubeni Iida Corp, Kobe
SPERM OIL—282 tons, Pisco
STARCH—600 bgs, Morningstar Nicol, Rotterdam
122 bgs, Rotterdam
TANNING EXTRACT—24 dms, Geigy Chemical Corp, Bremerhaven
TAPIOCA FLOUR—1,500 bgs, Stein Hall & Co, Itajai
3,000 bgs, American Metagraph Co, Itajai
TARA SEED—188 bgs, Callao
TARRAGON—45 bgs, Meer Corp, Hamburg
THEOPHYLLINE—20 dms, Biddle Sawyer Corp, London
TOLU BALSAM—25 cs, Barranquilla
TONKA BEANS—120 cks, Royal Bank of Canada, Port of Spain
40 cs, Wessel Duval & Co, Belem-Para
TRICHLOROETHYLENE—176 dms, Chemical Manufacturing Co, Liverpool
600 dms, Miny Corp, Venice
TUNG OIL—101 tons, Buenos Aires
UMBER—148 bgs, Chase Manhattan Bank, Larnaca
450 bgs, Smith Chemical & Color Co, Larnaca
UREA, SYNTHETIC—4,000 bgs, Chemical Manufacturing Co, Liverpool
VALERIAN ROOT—200 bgs, Shasha Trading Co, Bombay
VANILLA BEANS—31 cs, Ufinido International Corp, Tamatave
39 cs, Madagascar Agencies, Antalaha
68 cs, Lo Curto & Funk, Antalaha
76 cs, Gillespie & Co, Dares Salaam
22 cs, L A Champon & Co, Mombasa
10 cs, Frank Tea & Spice Co, Mombasa
20 cs, L A Champon & Co, Mombasa
18 cs, Otto Gerdau, Vera Cruz
25 cs, Mombasa
VITAMINS—2 cs Philips Export Co, Rotterdam
WAX—80 bgs, Wax & Rosin Products, Bremen
224 bgs, Bank of America, Rio de Janeiro
WHITING—1,260 bgs, Pluess Staufer, Antwerp
WOOL GREASE—55 dms, N I Malmstrom, Rotterdam
10 dms, Hummel Chemical Co, Rotterdam
95 dms, Chase Manhattan Bank, Fremantle
10 cs, Hummel Chemical Co, Bremen
53 dms, Antwerp
WAX—11 dms, Olympic Shipping Co, Liverpool
ACIDS—26 dms, Alexander & Co, Liverpool
ZIRCON SAND—1,200 bgs, International Titanium Corp, Brisbane
9,200 bgs, Lo Curto & Funk, Brisbane

Los Angeles

BLEACHING POWDER—100 dms, C M C Chemicals Inc, Manchester
BONEMEAL—1,200 bgs, Frank P Dow, Liverpool
CASEIN—100 bgs, W J Byrnes & Co, Buenos Aires
COPRA—3,360 bgs, Balfour Guthrie & Co, Manila
1,000 long tons, American Trust Co, Cebu
500 long tons, American Trust Co, Tabaco
4,000 bgs, Balfour Guthrie & Co, Manila
2,240 bgs, Balfour Guthrie & Co, Manila
IRON OXIDE—280 bbls, to order, Malaga
MOLASSES—1,713 tons, Southerwestern Sugar & Molasses Co, Mazatlan
OLIVE OIL—122 dms, Malaga
PEPPER, RED—31 bgs, Hirisaki, Kobe
PETROLEUM, CRUDE—16,250 tons, Shell Oil Co, Vancouver
30,485 tons, The Texas Co, Sumatra
QUEBRACHO EXTRACT—638 bgs, River Plate Corp, Buenos Aires
SEEDLAC—213 bgs, East Asiatic Co, Bangkok
SESAME SEED—40 ctns, Modern Food Products Co, Kobe
SODIUM CYANIDE—250 dms, American Cyanamid Co, Manchester
TAPIOCA FLOUR—500 bgs, American Key Products Co, Bangkok
UREA—700 bgs, C M C Chemicals Inc, Manchester
WOOL GREASE—15 dms, Pacific Coast Borax Co, Manchester

Philadelphia

ASBESTOS FIBER—300 bgs, Maracaibo
BEEF EXTRACT—323 cs, Tupman Thurlow, Buenos Aires
BONEMEAL—768 bgs, Ovimpex Inc, Buenos Aires
CASEIN—1,500 bgs, National Casein Sales, Buenos Aires
COCONUT OIL—312 tons, Manila
CRESYLIC ACID—401 dms, Concord Chemical Co, Hamburg
CUTTLEFISH BONE—100 cs, R T French, Kobe
FLUORMINERAL—1,200 bgs, Chas Kurz & Co, Copenhagen
FUEL OIL—94,101 bbls, Esso Standard Oil Co, Aruba
GLYCERINE—93 tons, International Packers Ltd, Buenos Aires
GYPSUM—6,296 tons, U S Gypsum Co, Hantsport
110 bgs, Beway Co, Liverpool
NAPHTHALENE—350 bgs, Gallard Schlesinger, Hamburg
1,820 bgs, Antwerp
PEATMOSS—1,000 bls, New Amsterdam Import Co, Copenhagen
600 bls, Keer Maurer, Bremen
PETROLEUM, CRUDE—196,172 bbls, Gulf Oil Corp, Puerto La Cruz
17,514 tons, Gulf Oil Corp, Mina Al Ahmadi
194,953 bbls, Gulf Oil Corp, Mina Al Ahmadi
218,049 bbls, Gulf Oil Corp, Banias
120,017 bbls, Atlantic Refining Co, La Salina
119,919 bbls, Atlantic Refining Co, Pamatacual
248,364 bbls, Atlantic Refining Co, Banais
350,418 bbls, Atlantic Refining Co, Puerto La Cruz
122,174 bbls, Bohia Petroleum Co, Punta Cardon
119,940 bbls, Socony Mobil Oil Co, Covenas
333,759 bbls, Socony Mobil Oil Co, Mina Al Ahmadi
155,610 bbls, The Texas Co, Sidon
418,007 bbls, The Texas Co, Las Piedras
POLLACKLIVER OIL—50 dms, Arista Oil Products Co, Yokohama
QUEBRACHO EXTRACT—1,030 bgs, H Elkan & Co, Buenos Aires
RUTILE SAND—9,660 bgs, Brisbane
SILICA ACID—3,360 bgs, G Cabot, Hamburg
SODIUM BICARBONATE—498 bgs, Chemical Manufacturing Co, Liverpool
SILICOFLUORIDE—200 bgs, Sterling Supply Co, Hamburg
500 bgs, H Sundheimer, Hamburg
TAPIOCA FLOUR—833 bgs, Manhattan Paste & Glue Co, Itajai
VANILLA BEANS—43 cs, Camax Co, Vera Cruz
50 cs, Cristobal
YACCA GUM—148 bgs, Adelaide
ZINC OXIDE—800 bgs, London

San Francisco

AMMONIUM BICARBONATE—235 dms, C M C Chemicals Inc, Glasgow
ANTIMONY REGULUS—45 cs, C Gitlan, Antwerp
BEEF EXTRACT—550 cs, International Packers Ltd, Montevideo
CELLULOSE EXTRACT—100 bgs, H J Boutin & Son, Gothenburg
IRON SAND—200 bgs, D H Weiss Associates, Glasgow
OLIVE OIL—100 dms, Monteverde & Parodi, Cadiz
50 dms, R Vannucci Co, Cadiz
122 dms, Malaga
PETROLEUM, CRUDE—272,233 bbls, Standard Oil Co, Sungai Pakning
113,184 bbls, Standard Oil Co, Puerto La Cruz
28,040 tons, Standard Oil Co, Sungai Pakning
22,278 tons, Tide Water Oil Co, Sungai Pakning
SODIUM ALGINATE—25 dms, Stein Hall & Co, Glasgow
BICARBONATE—400 bgs, C M C Chemicals Inc, Glasgow
CYANIDE—125 dms, American Cyanamid Co, Glasgow
TANKAGE—348 bgs, Tupman Thurlow, Montevideo
1,119 bgs, International Packers Ltd, Montevideo
TRICHLOROETHYLENE—100 dms, C M C Chemicals Inc, Liverpool

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Jobs & People

Atlas Powder Company, Wilmington, Del.—**Robert L. Herman, jr.,** has been transferred to the Atlanta, Ga., sales office, and **John J. DeGroot** has been transferred to the Chicago region.

Baker Castor Oil Company, New York—**Hyman M. Metz** has joined the staff of Baker's technical division in Bayonne, N. J., as head of the protective coatings laboratory, and **Oscar G. Lustig** is now on the research laboratory staff as an organic research chemist.

Columbia - Southern Chemical Corporation, Pittsburgh, Pa., a division of Pittsburgh Plate Glass Company—**Francis W. Theis** has been named manager of the planning department, and **Kenneth W. Richardson, jr.,** has been appointed director of the development department.

Columbian Carbon Company, New York—**Donn Snyder** has joined the carbon black and pigment division of the company, and will headquarter in the Boston sales office.

Cutter Laboratories, Berkeley, Calif.—**Dr. Marcus G. Van Campen, jr.,** has joined the company as vice-president for research.

Eastman Kodak Company, Rochester, N. Y.—**Clarence L. A. Wynd** and **Louis K. Eilers** have been elected vice-presidents.

Electro Metallurgical Company, New York, a division of Union Carbide & Carbon Corporation—**S. L. Jackson** has been appointed New York district manager. **D. B. Reeder** has been named western manager of metallurgical service. Replacing Mr. Reeder in his former job of manager of the San Francisco region is **H. J. Pfeifer,** former manager of the Houston, Tex., district.

Emery Industries, Inc., Cincinnati, Ohio—**Dr. Norman O. V. Sonntag** has been named to the research staff.

Evans Research & Development Corporation, New York—**Gerald Fishman,** Miss **Ruth Fierman,** and **Stanley Lerner** have been appointed research chemists.

The chemical divisions of Food Machinery & Chemical Corporation, New York—**Christian W. Johnson** becomes supervisor of polymer application research in the plastics and polymers department of FMC's chemicals research center. **Daniel Warren** has joined the polymer application section of the center, and **Bernard L. Gilbert** has taken charge of applied radiochemical research.

General Electric Company, Schenectady, N. Y.—**Frederick J. Burnett** has been named manager of alkyd resin product sales in the chemicals materials department.

Ingram Pharmaceutical Company, San Francisco—**Edwin L. Griffith** has joined the company as a salesman.

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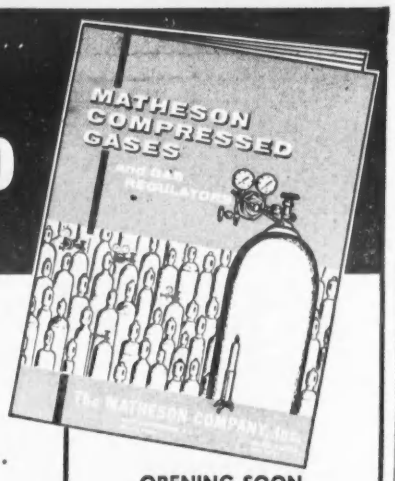

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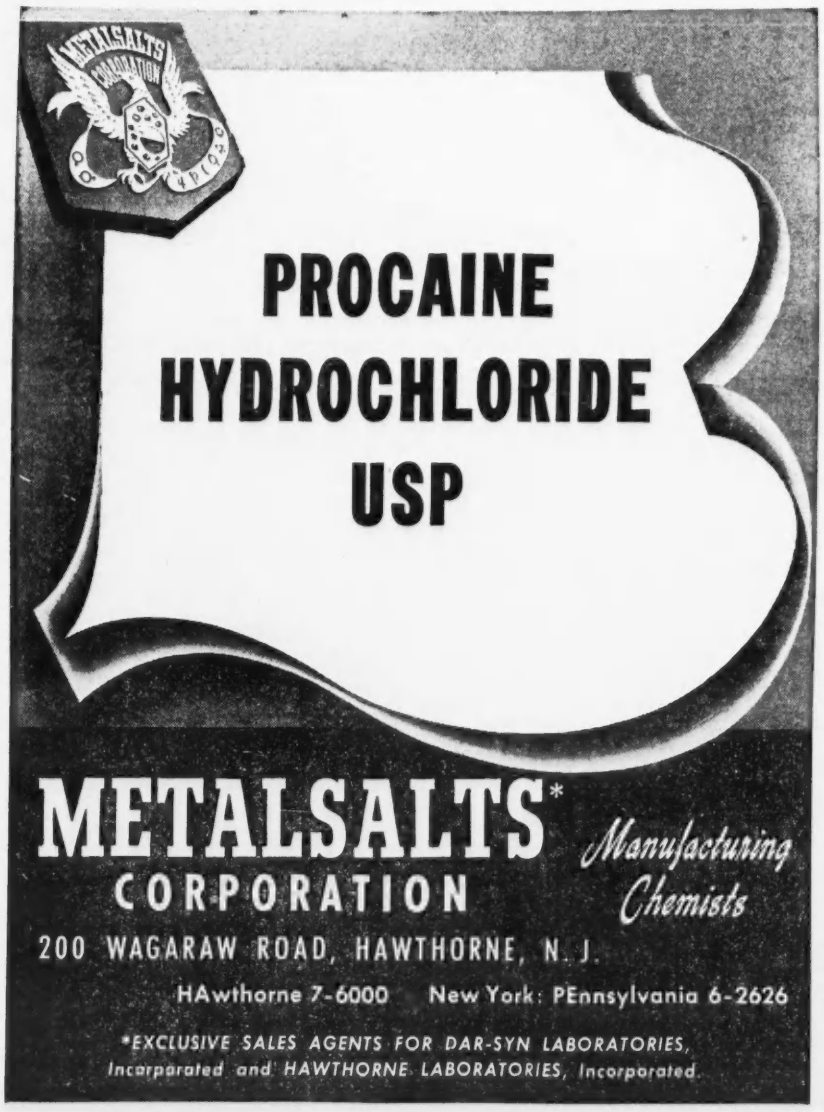

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Bids Wanted

Hydrochloric acid, 15,000 lbs., tech., inv. 252, Sept. 21, Navy Purchasing Office, Naval Supply Activities, N. Y., 3rd Ave. & 29th St., Bklyn. 32, N. Y.

Hydrogen peroxide, 210,000 lbs., 90% by weight, inv. 216, Sept. 24, Navy Purchasing Office, Naval Supply Activities, N. Y., 3rd Ave. & 29th St., Bklyn. 32, N. Y.

Paint, rubber base paint, for period from date of award thru Sept. 30, 1957, inv. SEOS-755, Sept. 24, Gen. Services Adm., Region 10, Business Service Center, 909 First Ave., Seattle 4, Wash.: 4,345 gals. gum spirits or steam distilled wood turpentine, East & West Coast, inv. 761, Sept. 25, 480 gals. aircraft gloss enamel, East & West Coast, inv. 772, Oct. 1, 20,364 gals. syn. gloss enamel, Belle Mead Gen. Depot, inv. 751, Sept. 28, 1,190 gals. vinyl alkyd outside paint, 700 gals. vinyl red lead type primer paint, 700 gals. vinyl zinc chromate primer paint, 4,200 gals. anti-fouling, vinyl red paint, East & West Coast, inv. 720, Sept. 27, 705 gals. interior deck paint, 800 gals. syn. primer paint for ferrous metal and wood surfaces, East & West Coast, inv. 710, Sept. 26, 50 gals. fuel resistant aromatic lacquer, 5,344 gals. lusterless enamel for ammunition, 12,960 qts. syn. gloss enamel, 644 gals. gasoline-removable paste, lusterless camouflage paint, East & West Coast, inv. 712, Sept. 28, 725 gals. lusterless glyceryl phthalate enamel, 1,455 gals. syn. gloss enamel, inv. 708-B, Sept. 19.

4,795 gals. ready mixed exterior paint, 1,375 gals. rust inhibiting, brush and spray application, semigloss enamel, inv. 689-B, Sept. 20, 300 gals. interior deck paint, 663 gals. lusterless enamel for ammunition, 443 gals. syn. gloss enamel, East & West Coast, inv. 446, Sept. 26, 2,730 gals. glyceryl phthalate lusterless enamel, 750 gals. outside paint, 7,543 gals. syn. gloss enamel, East & West Coast, inv. 538, Sept. 28, 1,500 gals. syn. gloss enamel, 500 gals. fire retardant semigloss interior paint, 500 gals. oil, exterior paint, 500 gals. primer syn. paint for ferrous metal and wood surfaces, 2,000 gals. wood preservative, water repellent pentachlorophenol mixture, East & West Coast, inv. 425, Sept. 27, 1,328 gals. lusterless enamel for ammunition, 1,876 gals. interior gloss enamel, 300 gals. wood paste filler, 945 gals. oleoresinous emulsifiable camouflage paint, 1,195 gals. oil type camouflage paint, 505 gals. interior deck paint, etc., 16 items, East & West Coast, inv. 482, Sept. 25, Aviation Supply Office, Navy Dept., 700 Robbins Ave., Phila. 11, Pa.

Pesticides, 40,000 lbs. DDT 75% water dispersible powd., inv. FNW-4Q-66247-D-A, Sept. 21, Gen Services Adm., Region 3, Business Service Center, 7th & D Sts., S.W., Washington 25, D. C.

Sodium cyanide, 16,400 lbs., tech., white, delinquescent egg-size lumps, East & West Coast, inv. (1)-456, Sept. 21, Gen. Stores Supply Office, Navy Dept., 700 Robbins Ave., Phila. 11, Pa.

Sodium metaphosphate, 1,300 lbs., inv. 37, Sept. 25, Contracting Officer, Maxwell AFB, Ala.

Sodium nitrate, 40,000 lbs., inv. 39, Sept. 21, Contracting Officer, Army Chem. Center, Frederick, Md.

Sulfuric acid, 1,056 1-pt. bots., reagent, inv. 106, Sept. 20, Contracting Officer, Raritan Arsenal, Metuchen, N. J.

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Essential Oils, Aromatics

The market appeared to be slowly moving into its fall seasonal period last week, dealers here reported, as some prices shifted slightly while others showed signs of impending movement. Lemon oil declined to a 25 cents per pound level on the spot market reflecting the final throes of the high flying citrus oil market. Geranyl and Geraniol both declined on spot, reflecting for the first time, earlier down shifts of their source material. Nutmeg oil continued very firm as dealers reported supply shortages and heavy demand. Neroli appears to be shifting downward from the excessive heights it rose to during the post-crop damage period. Present evaluation of material shipped into the United States in July listed the material at about $333 per pound.

The two mint oils both suffered blows this week with reports of even heavier crops than had been originally anticipated. Prices had already softened on spot with the earlier reports; now dealers feels sure that further declines will be inevitable.

Bois de rose continued to show signs of pending strength as the price on spot held fast for the third week in a row. Though no upward movement has been seen, or is expected immediately, the stability is a good sign to most dealers.

Seeds and spices continued unmoving, with only slight shiftings in price and heavy strength remaining in the nutmeg and mace markets.

Price Trends

Advanced

None.

Reduced

Geraniol, 55c. per lb.
Geranyl, 40c. per lb.
Oil, lemon, 25c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Sept. 16, 1955
138.29	138.41	137.85	134.84

For Current Prices see Page 9

Essential Oils

Bois de Rose—The market for this material appeared on the surface to be unchanged, dealers here reported. However, the steady downward trend and soft tone that was so much a part of the bois de rose scene for the past years, has not been present during the last few weeks and even, some dealers said, a certain air of tightness has been present. It is actually too early, some authorities have said, to analyze just how much strength the market will be able to mass under the direction of the new forces in control. Control, doubtless, is what was needed for the South American oil market, nearly all producers and dealers agree. However, too heavy a hand might break the all too thin fibre of strength left to bois de rose and its dependent oils. Many persons interested have assumed a wait and see attitude and movement is not great within the market.

Citronella—This oil continued its downward movement last week dealers here reported on the heels of new information from source. Latest reports from Formosa noted that October shipping prices stand well below $1 per pound. The decline started about a month or more back, dealers on spot reported, with information on heavy shipping price declines. Since then market movement has evidently reacted throughout to that earlier information. The present soft tone is expected to continue for some little time, it was said.

Lemon—A new softening movement in the lemon oil market last week reflected the general easing tones of the citrus oils market as a whole. A number of factors, however, beyond the subsiding of the citrus seasonal period, goes into the decline. One major factor was the recent movement of organized California growers to bring out a lemon oil consistent at price level with the material sold by independent growers. Their material sold for $4.50, the same as the going rate for that of the independents. Now, however, material is appearing on the market ranging from $4.25 to $4.35 per pound. Considering the high heights the market soared to during the season, this downward movement can be seen as both a post seasonal move to capture the residues of the heavy sales period and a move to keep in step with the waning sales days.

Lemongrass—Dealers reported a slight tendency toward firmness on the part of shipping prices last week. However, they said that the movement was hardly sufficient to bring about a reversal in the downward trend in prices on stocks material. Though some dealers suggested that a reversal might take place, most admit that the heavy newcrop now either in source area supply or in the process of being shipping, makes such a movement highly improbable.

Neroli—Listings for this material, although still high, appear to be leveling out from its excessive upward movement of earlier this year. Latest government evaluation of material shipped to the United States during July showed an approximate quote of about $333 per pound. Previous to this, prompted by reports of extreme crop damage dealers and producers had shoved listings on spot as high as $575 per pound.

Nutmeg—Prices failed to shift for this oil last week, dealers on spot noted last week, in spite of the persistance of the tight supply situation. Variations on demand, of course, would force movement. Supply resources, with the stunted crop left from last years' storm damage, is not the variable it usually is and prices under any but the most normal of stresses, should advance. The stock situation, due to the nature of the damage done, it was reported, should not change for a number of years.

Peppermint—Government crop reporting authorities raised their estimate of this and the spearmint crop for this year, it has been reported. The new peppermint oil forecast is 2,230,000 pounds and the anticipated spearmint oil output is computed at 757,000 pounds. This new higher estimate is about 15 percent higher than the 1955 crop atnd about 40 percent above the 1949-1950 average. They attributed some of the new crop strength to particularly good conditions in Oregon where the annual crop is already virtually in.

This new development should make the market take another turn toward softness, dealers here reported. The market for both mint oils had already shown signs

Essential Oil Imports: July

Following are data complied by the Census Bureau indicating volume and dollar value of essential oil imports for the month of July and volume for the first three months of this year.

Oil	July 1956	Value	First Three Months, 1956
Geranium	10,507 lbs.	$122,873	21,489 lbs.
Rose	6,112	80,750	3,833
Bergamot	6,585	56,354	57,076
Citronella	608,586	748,394	550,418
Lemongrass	172,374	232,281	274,960
Lavender	2,866	10,403	104,794
spike	15,388	24,891	14,762
Lemon	9,128	50,784	24,183
terpenless	3,827	1,753	922
Orange	9,857	21,226	216,118
Sandalwood	2,550	25,287	11,416
Lime	43,742	146,638	35,401
Ylang Ylang	1,785	25,430	6,887
Bois de rose	10,105	24,236	259,616
Neroli	118	39,332	182
Patchouli	20,580	97,473	23,202
Clove	48,759	49,705	60,946

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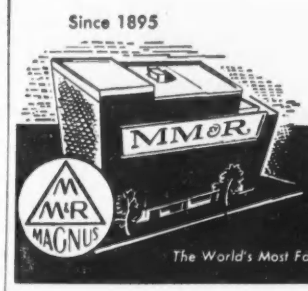

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Essential Oils

of slipping on the heels of earlier reports of heavy production this year. This further report of even heavier production than had been anticipated, should prompt the easing movement.

Aromatic Chemicals

Geranio!—Declining raw material prices brought this material down in listing last week, dealers on spot reported. The new quote is $3.95 per pound, or 55c. per pound less than the last price.

Geranyl—This material also declined last week as the result of declining raw material costs. Included in the source material for geranyl is bois de rose. The new quote, $3.65 per pound, is 40c. less than the previous listing.

Seeds and Spices

Cassias—Prices are relatively firm for all grades, dealers here reported but as yet demand has not broadened sufficiently to advance them. It is a mistake, however, to assume that the lack of change is a sign of weakness, one dealer here noted. Shipment levels are fully on a par with spot prices. There has been little incentive for importers to stock any quantity.

Pepper—Despite fairly heavy detentions on recent arrivals of Malabar, the market eased perceptably this week. The fact that these arrivals would not be immediately available for consumption did not cause any particular concern to buyers, dealers here noted. Sarawak, on the other hand, held about steady. Little or no pressure was found to push sales at a discount, and afloat offerings were more or less in line with spot prices.

India and Singapore appeared able to maintain their levels despite dull business. Lampong was a little cheaper than Malabar but the late arrival positions attracted very little interest.

A review of red pepper inventories in spot, one dealer claimed last week, showed low stocks. The only Nigerians here are two years old. There are no Turkish or low qualities of other red peppers. Most of the Santakas here have been sold. There are a few Yatsafusas and a slightly larger quantity of Hontakas. New crop Carolinas are reportedly a good consideration on the market, dealers here reported.

Turmeric—An improved inquiry for Alleppey is to be noted. All grades are trading at their post war lows. If your stocks are dwindling it is well to replace. Nothing has been heard on newcrop to date. However, India was not particularly impressed with the return from the last crop. It is therefore unlikely that any special effort was devoted to the coming crop.

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Coatings Materials

A price increase in phthallic anhydride was reflected in the coatings market last week by advances of ½ cent per pound in dimethyl and diethyl phthalate. While the move was not universal, market sources expected that the remaining producers would follow suit. Meanwhile, several plasticizer makers were announcing official reductions of 1½-2 cents per pound for octyl type phthalates, thus bringing their listings into conformity with prices that had previously prevailed unofficially. These changes, as well as the ones mentioned previously, are effective immediately on spot, and October 1 on contract orders. Quotations on dioctyl and di-iso-octyl phthalate are now 28½ cents per pound for tankcars, as compared with 30½ cents per pound previously, while octyl decyl phthalate has been reduced 1½ cents to 29 cents per pound.

Last week's plasticizer sales were described as lively and sharply competitive. Buying for fall production in the automobile industry was said to be having an especially tonic effect on the market. Other outlets, including paint, fabrics and rubber were also showing excellent improvement.

Trading in prime pigments was reported last week to be gaining rapidly. As with plasticizers, the automobile, paint, and rubber outlets were providing most of the impetus. The most notable gains were reported in lead and zinc oxides, which showed complete recovery from the doldrums of the previous week.

A major manufacturer is raising the price of butylated urea formaldehyde coating resins and butylated melamine resins by 1½ cents per pound in Western states, effective October 1. No other fourth quarter price changes have been announced as yet.

Prices of orange shellac slipped 1 cent per pound in last week's trading, reflecting a sluggish rate of demand. Gum quotations moved in opposite directions, with Manila copals dropping ¾-1 cent per pound, while Singapore dammars were gaining ¼-¾ cent per pound. Gum demand was said to be emphasizing actual needs with interest shifting rapidly from one material to another.

Casein prices were maintained but dealers said the undertone was unsteady as reports of a plentiful Argentine crop circulated. Buying interest in the United States remained quiet, while, because of seasonal factors, demand from Europe had come to an end.

Price Trends

Advanced

Dimethyl phthalate, ½c. per lb.
Diethyl phthalate, ½c. per lb.
Gum, dammar, Singapore No. 1, ¼c. per lb.
No. 3, dust, ¾c. per lb.

Reduced

Di-iso-octyl phthalate, 2c. per lb.
Dioctyl phthalate, 2c. per lb.
Gum, Copal, Manila C, 1c. per lb.
DBB, ¾c. per lb.
Octyl-decyl phthalate, 1½c. per lb.
Shellac, orange grades, 1c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Sept. 16, 1955
100.14	100.14	100.13	97.17

For Current Prices see Page 9

Prime Pigments

Aluminum Paste, Powder—Quotations were reported steady at recently advanced levels. The last increases, put into effect September 1, resulted from higher wage rates in the aluminum field. Prices are 68c. per pound for extra-fine paste, and 48c. per pound for standard. Powder is 78½c. per pound for standard and $1.09 per pound for extra-fine.

Antimony Oxide—The market continued its advance over the sluggish summer pace. Prices were steady in response to stable trading in the primary metal.

Black, Carbon—Auto makers appeared to be preparing for a fourth quarter jump in production, as evidenced by increased demand from the rubber industry and other suppliers to the automobile field. No price changes were reported.

Cadmium Colors—Consumers are said to be favorably impressed with the new line of cadmium lithopones manufactured from mercury. These materials are cheaper in price and plentifully available. Meanwhile, demand for selenide lithopones continues heavier than supplies, despite competition from the new materials. While it is possible that more consuming interest might shift to the mercury lithopones when they have proved themselves through widespread use, no easing of the shortage of selenides is expected in the trade.

Chrome Colors—Trade was dull preceding the week-end holidays but picked up solidly last week. Trade sources said that demand was rapidly approaching a fourth-quarter level.

Lead Pigments—Demand was reported up sharply, with paint makers leading the way. The rubber industry was also showing good demand for lead oxides. Pricewise, the market remained steady, continuing a long stretch of unusual stability. No price movements were noted in the primary metal.

Titanium Dioxide—The present supply picture contrasts notably with the beginning of the year. In these eight months the market has changed from a situation of scarcity and allocation to one of comparatively long supplies. Observers attribute this to the rapid expansion embarked on by the industry to alleviate the squeeze that prevailed over the past few years. Recently a major pigment manufacturer entered the field, adding both anatase and rutile titanium dioxide to its line of products.

Sales began to show a sizable upswing last week and sources inside the trade voiced confidence that a good fourth quarter was developing.

Zinc Pigments—Trading moved up sharply, producers reported, with rubber and paint outlets showing the highest gains. Prices were firmly maintained and supplies were in good balance.

Lacquer Materials

Dimethyl Phthalate—An increase in the price of phthallic anhydride was reflected in this market by a ½c. advance in quotations effective immediately on spot and October 1 on contract orders. The price revision was not universal, but market sources expected the remaining producers to follow suit.

Business was rushing along last week, producers reported, indicating that the first stage of the fall season has been reached. Improvement was reported in all the main outlets, including automobiles, paint, fabrics and rubber.

Diethyl Phthalate—This material was also advanced ½c. on spot to offset the increase in phthallic anrydride. The tone of the market has improved substantially, with gains reported in all the major outlets. Buying for fall production in the automobile industry was said to be having an especially tonic effect on the market. Supply levels are expected to be adequate for the seasonal demand.

Di-Iso-Octyl Phthalate—Confirming the expectations of market observers, quotations on this plasticizer have been reduced to the level at which it was previously selling unofficially. The change is effective immediately on spot and October 1 on contract orders. The tankcar price is now 28½c. per pound, as compared with

Coatings Shipments, Output: July

	Factory shipments Dollars		Reported production Gallons	
	July	June	July	June
Trade sales	$83,592,000	$91,400,000	21,406,000	22,673,000
Industrial sales, total	50,236,000	54,749,000	18,178,000	19,720,000
Paint and varnish	38,160,600	42,115,000	13,624,000	14,977,000
Lacquer	12,068,000	12,634,000	4,554,000	4,743,000
Overall totals	$133,828,000	$146,149,000	40,125,000	43,019,000

Total sales January through July: $1,083,305,000.

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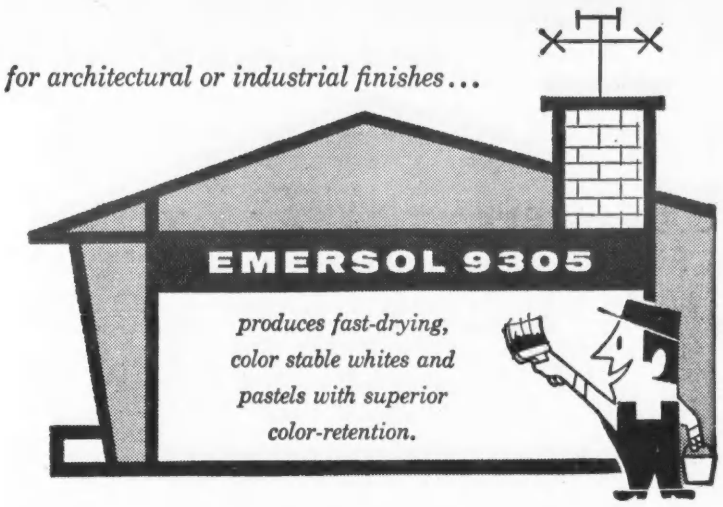

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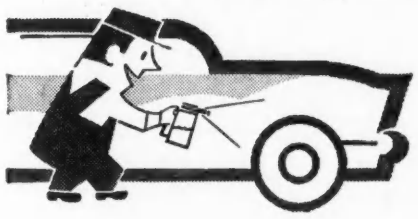

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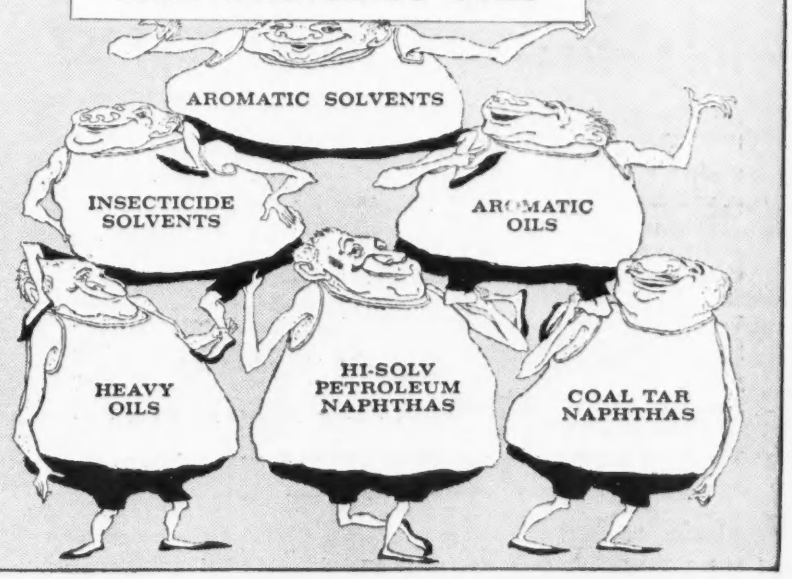

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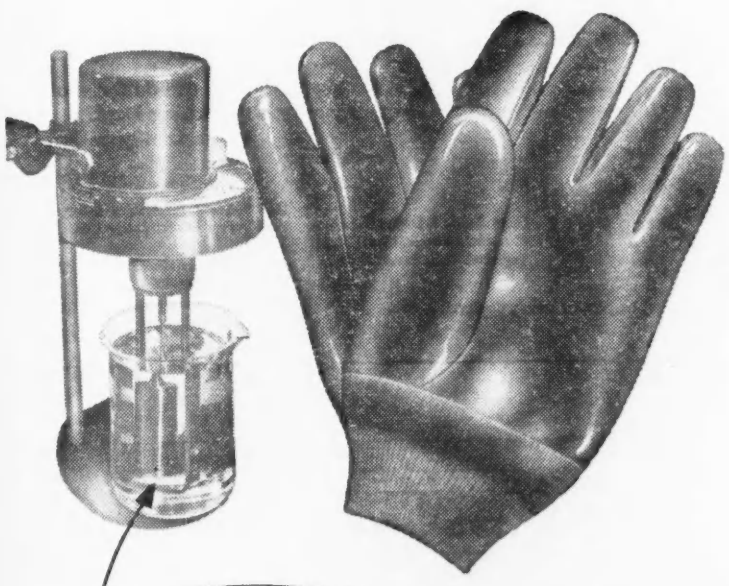

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Coatings Materials

30½c. previously. Last week's business was described as lively and sharply competitive. Although the new price is believed to be universal in the industry, not all producers have officially changed their listings.

Dioctyl Phthalate—Quotations have been officially reduced to 28½c. per pound by several producers in this field. This price, though indicating a 2c. decline, merely brings listings into line with prices that were already prevalent. Octyl decyl phthalate has been similarly reduced to 29c. per pound. Market sources predicted that other makers would match these price reductions.

Naval Stores

Rosin Gum

	Fri. Sep. 7	Mon. Sep. 10	Tues. Sep. 11	Wed. Sep. 12	Thurs. Sep. 13
Drums—					
M	...	$8.10	$8.16½	...	$8.20
N	$8.10	...	8.15	...	...
WG	8.25	8.35	8.39	...	8.35
WW	8.34	8.50	8.58½	$8.60	...
Bags—					
K	8.09	...	...	...	...
M	...	...	8.05	...	...
WG	...	...	...	...	8.30

Tankcars (for week ended Sept. 7)—
M or better, $7.65, K or better, $7.81.

Sales, USDA

570*	700*	1,131*	603*	360*

New York
(per 100 lbs., c.l., Friday)
B through N, $9.40; WG, $9.55; WW, $9.65.

Turpentine, Gum
(USDA, per Gal., 7.2 lbs.)

Price	.545	.549½	.547½	.55	.547½
Sales	4,000¶	8,000¶	16,000¶	8,000¶	16,000¶

New York, Friday, per gal. 7 lbs., tankcars, 63½c., l.c.l. 75c.

* Drums equivalent. ¶ Gallons. †Average price.

Natural Resins

Gum—Manila C copal fell to 37-40c. from a previous level of 38-40c. per pound, while the inside price on DBB slipped ¾c. to 27¼c. per pound. CBB was reported out of stock by the major dealers here. Meanwhile, a firmer picture was showing in dammars. Singapore No. 1 was ¼c. higher than previously and No. 3 dust was ¾c. higher. Gum demand continues to emphasize actual needs, shifting rapidly from one material to another. As the price picture shows, dammar gums were favored in last week's trading.

Shellac—In a quiet market, prices of orange shellac dropped 1c. per pound. Prevailing quotations are 49c. per pound for lemon No. 1, 47c. per pound for No. 2, and 46c. per pound for superfine. Bleached

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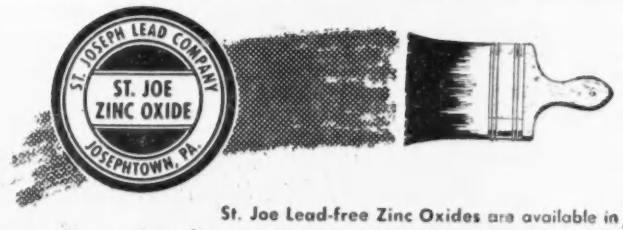

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sheliac continued unchanged. Buying was still generally restricted to immediate requirements.

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Fillers and Inerts

Barytes—Barite ore has been increasingly difficult to obtain, and costs of mining it have gone higher. As a result, prices were under a good bit of upward pressure.

Blanc Fixe—There has been no appreciable change in this market during the facturers and paint producers become more active.

Calcium Carbonate — There was little change in this item during the week. Buying interest was expected to pick up during the next few weeks, as rubber manuweek. Some improvement is expected for the next two months.

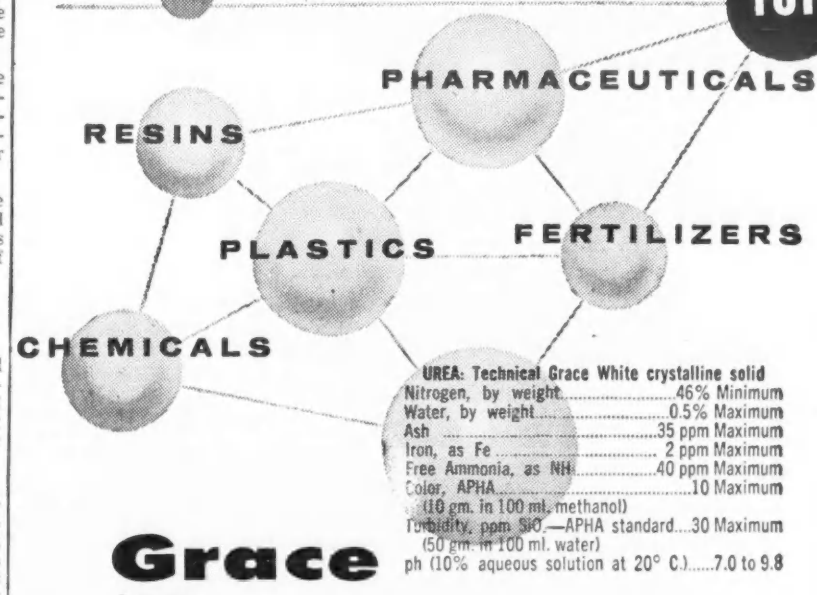
Mica—Interest for this material for use as a paint filler held about steady. Good results have been obtained using mica as a filler in polystyrene and similar types of latex paints, producers reported.

Miscellaneous

Glue—The following figures compiled by the Bureau of Census indicate production, shipments and stocks of bone and hide glue in thousands of pounds during July with June's figures shown for comparison.

	July	June
Production		
Hide, glue, total	3.936	4.564
Low grade	1.739	1.744
Medium grade	1.285	1.356
High grade	737	952
Extra high grade	175	512
Bone, glue, total	4.204	4.777
Green	3.589	3.966
Extracted	615	811
Glue, total	8.140	9.341
Shipments		
Hide, glue total	3.992	4.351
Low grade	1.601	1.720
Medium grade	971	998
High grade	923	1.023
Extra high grade	497	610
Bone, glue, total	3.418	5.315
Green	2.827	4.016
Extracted	591	1.299
Glue, total	7.410	9.666
Stocks		
Hide, glue, total	22.027	22.083
Low grade	6.471	6.333
Medium grade	6.128	5.814
High grade	5.618	5.804
Extra high grade	3.810	4.132
Bone, glue, total	9.940	9.154
Green	7.546	6.784
Extracted	2.394	2.370
Glue, total	31.967	31.237

crystal-urea for



UREA: Technical Grace White crystalline solid
Nitrogen, by weight.....46% Minimum
Water, by weight.....0.5% Maximum
Ash.....35 ppm Maximum
Iron, as Fe.....2 ppm Maximum
Free Ammonia, as NH.....40 ppm Maximum
Color, APHA.....10 Maximum
(10 gm. in 100 ml. methanol)
Turbidity, ppm SiO.—APHA standard....30 Maximum
(50 gm. in 100 ml. water)
ph (10% aqueous solution at 20° C.).....7.0 to 9.8

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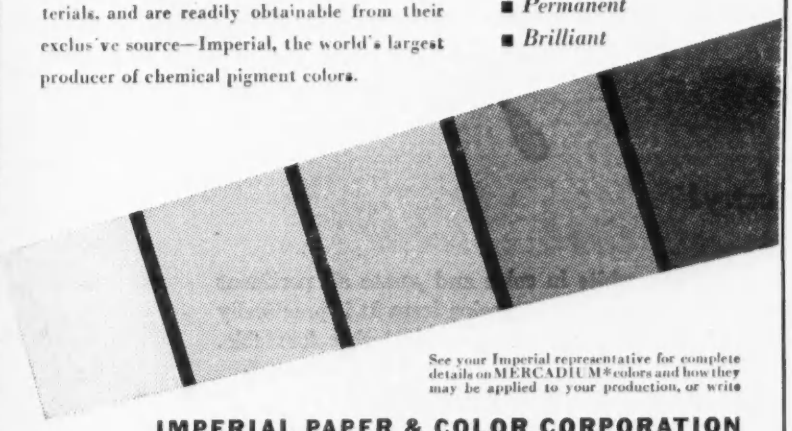

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Data Offered

"Red Lead Technical Letter No. 11—Recommended Surface Preparation of Steel for Red Lead Paints" is the title of the first of a series of red lead technical letters issued by the Lead Industries Association, 60 East 42nd street, New York, dealing with surface preparation of steel prior to the application of primer paints. The nine-page letter deals with questions of surface preparation, with a quick reference summary, and gives a list of the manufacturers of red lead. Copies may be had free of charge by writing to the Lead Industries Association at the above address.

"Irrathene" irradiated polyethylene is the subject of a twelve-page illustrated technical report published by the chemical development department of General Electric Company's chemical and metallurgical division, Pittsfield, Mass. The brochure cites outstanding properties of "Irrathene," including its physical and electrical properties, as well as moisture and chemical resistance, encapsulation ability and thermal stability. Also described are performance characteristics, typical applications, and technics of use. The brochure, "CDD-1-2, is available from GE's chemical development department, 1 Plastics avenue, Pittsfield, Mass.

Protective coatings designed to improve the appearance, prolong the life, and ease maintenance of large floor areas in commercial and institutional buildings are outlined in an eight-page pamphlet published by the Chemical Specialties Manufacturers Association, and may be obtained from the association by writing to 50 East 41st street, New York. Prepared by the scientific committee of the group's waxes and floor finishes division, the pamphlet includes tips on care of various types of floors. Methods outlined are applicable only to school, hospital, institutional and commercial maintenance, using trained personnel and floor maintenance equipment.

Agricultural's New

—*Continued from page 4*

who appeared before the commission, were representatives of the committee of the Distilled Spirits Institute, and M. Earl Heard, sr., vice-president in charge of research for West Point Manufacturing Company (Textiles), West Point, Ga.

The commission's interest in the distillers was in the possibilities of expanding uses of agricultural products for making of alcohol. The commission expects to meet later with other alcohol producers, who are more concerned with industrial uses of alcohol, rather than with the potable trade.

One of the fields that will undoubtedly be reopened for consideration will be the possible use of alcohol as a motor fuel additive. While feasible it is economically not practical under present day prices of agricultural raw materials to make alcohol for blending with gasoline.

It was announced by the commission following last week's meetings that Wheeler McMillen, editor of *Farm Journal*, has accepted appointment as executive director of the commission.

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Oils, Fats and Waxes

Feature of oils and fats last week was the fractional advance in tallow and greases. Soapers were in the market and absorbed moderate quantities at the higher levels. Offerings were limited and maintained at the advance. Export interest dried up. Oleo oil was in better supply and quotations were off fractionally. While trading in edible oils was slow, the market remained on a steady basis. Soybean oil was irregular but closed steady. Cottonseed, corn and peanut oils remained unchanged. Soybean and corn oil foots were fractionally lower. Lard was easy and slightly lower. Crude coconut oil was easy and lower with copra.

Limited consuming interest for drying oils created an easier tone in this division. While quotations were unchanged firm bids could have shaded linseed, oiticica, Brazilian castor, tung and refined fish oils. Lower cost of cod oil replacements resulted in trading at decline of ½ cent per pound. Palm oil also was affected by lower primary market and spot stocks also dropped ½ cent per pound. Crude menhaden oil continued inactive. Exporters showed little interest, though producers maintained former quotations. Light stocks of rapeseed oil on spot continued to command premiums, though sales of small lots were reported at a lower level.

Price Trends

Advanced

Greases, ¼c. per lb.
Tallow, ¼c. per lb.
Wax, Japan, 1c. to 2c. per lb.

Reduced

Copra, $2.50 per ton.
Lard, cash, ½c. per lb.
Linseed meal, 50c. per ton.
Oil, cod, ½c. per lb.
Corn, foots, 95%, ⅛c. per lb.
Oleo, ½c. per lb.
Palm, ½c. per lb.
Rapeseed, ½c. per lb.
Soybean foots, 95%, ⅜c. per lb.
refd., ⅛c. per lb.
foots, 95%, ⅜c. per lb.
Soybean meal, $2.50 per ton.
Wax, candelilla, crude, 2c. per lb.
refd., 5c. per lb.

Comparative Price Indexes

(100—1949 average)

Last week	Prev. week	Last month	Sept. 16, 1955
115.40	116.20	117.13	103.04

For Current Prices see Page 9

Vegetable Oils

Castor—This market was quiet and steady. Domestic grades were in demand for prompt needs. No. 1 Brazilian was offered at 18c. per pound, tankcars, New York, prompt delivery.

Coconut—Crude was quoted at 11⅛c. tankcars Pac. coast and 12⅛c. New York.

Cottonseed—Futures moved within a narrow range with mixed trading last week. Oil for prompt delivery was under pressure and declined slightly, while forward positions were higher under active speculative buying, due chiefly to stronger cotton futures. There was some liquidation in September as a result of circulating tenders which were increased to 123 contracts. Cash business was reported spotty. Refined salad was quoted at 15⅜c. per pound, tankcars, New York, prompt delivery.

Crude cottonseed oil was irregular but steady. Sales and bids were reported in the southeast Valley and Lubbock at 11⅞c. per pound, tankcars, f.o.b. mills. Waco was 12¼c. asked.

Cottonseed Oil Futures

Sales and prices of prime summer yellow cottonseed oil futures in tankcars (60,000 pounds) on the N. Y. Produce Exchange for the week ended Friday, September 14, follow:—

	Sales	High	Low	Close
		—Cents per pound—		
Sept.	192	14.11	13.80	Exp.
Oct.	180	14.38	14.00	14.02@14.05
Dec.	297	14.49	14.17	14.27@14.29
Jan.	9	14.54	14.25	14.25@14.40
Mar.	82	14.70	14.39	14.60S
May	271	14.75	14.43	14.65@14.71
July	156	14.75	14.25	14.65S
Sept. (1957)	73	14.50	14.25	14.50@14.55
Oct. (1957)	2	14.21	14.21	14.25@14.40

Total sales and switches, 1,262 contracts.

Flaxseed—Market remained steady and unchanged. Seed offers still light.

Minneapolis—Cash flaxseed market was firm and unchanged, crushers holding bids at $3.25 per bushel, spot and to-arrive, basis Minneapolis. Scattered showers throughout the flaxseed area hampered harvesting operations and bookings were rather limited. There were reports of producer resistance to current price level, with indications that increasing quantities would go under the loan unless the price moves upward. Trade noted with interest and surprise the sharp increase in government estimate of flaxseed production. The report, released September 11th, estimated yield of 50,326,000 bushels, compared with an estimate of 44,250,000 a month earlier—an increase of over 6,000,000 bushels. Frost was reported in scattered sections of the flax belt, possibly affecting quality in those areas. Offerings in the spot cash market totaled 47 cars and 8,000 bushels in trucklots.

	Receipts		Shipments
	1956-57	1955-56	1956-57
Past week	1,191,600	1 860,250	126,000
Since Sept. 1	2,132,000	3 507,000	280,800

Oiticica — Trading was reported slow. Tankcars were offered at 14¾c. per pound, New York, prompt and shadable on firm bid. Drums were unchanged at 16¼c. to 16¾c. per pound, spot as to quantity.

Olive—This market was inactive and unchanged. Spanish oil was maintained at $3.45 to $3.60 per gallon, drums, duty paid for spot delivery and Argentine at $3.25 to $3.30, same basis.

Palm—Lower replacement costs weakened the spot situation. Drums were reduced to 15c. to 16c. per pound, spot as to quantity and 12.2c., tankcars, same basis.

Peanut—Buying interest was light. Crude was unchanged at 13c. per pound, tankcars, f.o.b. mills. Refined oil was quoted at 16⅜c. per pound, tankcars, New York, prompt delivery.

Rapeseed—Supplies continued scarce. Light sales were reported on the basis of 22c. per pound, tankcars, spot delivery. New crop oil was quoted at 18c. per pound, tankcars, New York, November-December delivery.

Soybean—Steady tone prevailed in this market due chiefly to export business for shipment to Italy. Crude was sold at 11⅛c. per pound, tankcars, f.o.b. Decatur, September and 11¼c. October-November. Refined was held at 13⅞c. per pound, tankcars, New York, prompt delivery.

Soybean crop as of September 1 was estimated at 461,928,000 bushels by the Department of Agriculture, compared with 442,557,000, August; final 1955 production of 371,106,000 and 1945-54 average of 253,653,000 bushels.

Soybean Oil Futures

Sales and prices of crude soybean oil futures (new contract) in tankcars (60,000 pounds) on the New York Produce Exchange for the week ended Friday, September 14, follow:—

	Sales	High	Low	Close
		—Cents per pound—		
Sept.	3	11.00	11.00	11.05@11.15
May	5	11.52	11.28	11.40@11.44

Total sales 8 contracts.

Tung—With trading slow, offerings were more liberal and market was nominal at 23¼c. to 23½c. per pound, tankcars, New York, prompt, depending upon seller. Drums were held at 25c. to 25½c. per pound, according to quantity.

Miscellaneous

Castor Beans—Shipments were quoted nominally at $155 per ton, f.o.b. Brazilian ports. Trading was reported slow.

Import of castor beans and castor oil at New York and Philadelphia last week were as follows:—

	Pounds	
	Beans	Oils
Last week	1,244 250	1,014,000
Previous week	.....	.....
Corresponding week, 1955	250,050	4,464,000
Total this year	33,986,500	56,867,000
Corresponding period, 1955	59,093,465	59,848,000

Cocoa Butter — This market was steadier and advanced to 48c. to 51c. per pound, spot as to quantity.

Copra—Market was quiet and unsteady. Prompt shipment was quoted at $152.50 per ton, c.i.f. Pacific coast.

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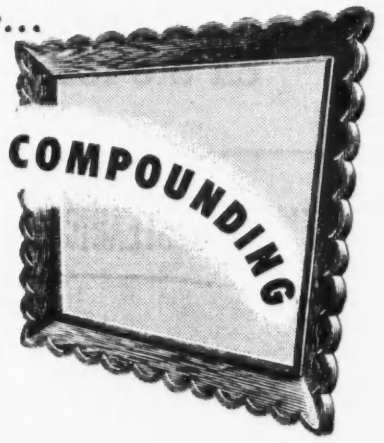
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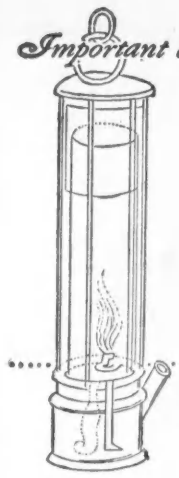

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Unsaponifiable	0.05% max.
Saponification Value	208 – 212
Acid Value	207 – 211
Iodine Value (WIJS)	4.0 max.

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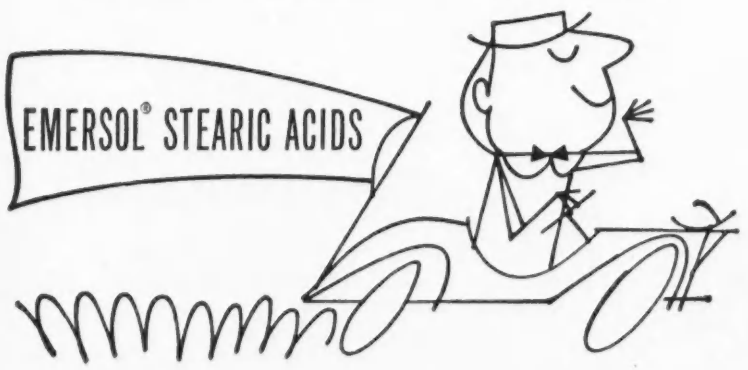

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Oils, Fats and Waxes

Fats and Greases

Greases—This market was stronger with tallow. Increased trading lifted quotations ¼c. per pound. Yellow grease closed at 6⅝c. per pound, tankcars, delivered. Choice white all hog advanced to 7⅝c.-7¾c., same basis. Export business was inactive.

Lard—Demand was slow. Prices were easy and slightly lower. Cash lard was nominal at 11.02c. per pound, drums, Chicago

Oleo Oil—Offers were freer and with demand light, prices dropped fractionally. Extra was quoted at 18c. to 18½c. per pound, drums, as to quantity and seller. Oleo stearine was held at 11c. to 11½c. per pound, same basis.

Tallow—Improved demand from soapers stiffened this market and prices were sharply higher. Bleachable fancy sold up to 7½c. per pound, delivered but closed at an ⅛c. less. Extra was advanced to 7⅛c.; special, 6¾c. and No. 1, 6⅝c., same basis. Export interest was inactive. Fancy was firmer at 9c. per pound, drums, exdock.

Tallow Futures

Sales and prices of bleachable tallow futures in tankcars (60,000 pounds) on the New York Produce Exchange for the week ended Friday, September 14, follow:—

	Sales	High	Low	Close
		Cents per pound		
Sept.	1	7.48	7.48	7.35@7.55
Oct.	5	7.50	7.45	7.40@7.50

Total sales, 6 contracts.
(Switches 5 December to 5 March).

Cake and Meal

Cottonseed Meal—Market was fairly steady. Production is increasing with demand moderate. Most mills are in operation although the seed movement has not yet hit maximum. Old process 41 percent meal was offered at $53 per ton, sacked Memphis; $56 Alabama; $55.50 Georgia and South Carolina mills for September-October shipment.

Linseed Meal—Market was easier, off 50c. per ton. Trading moderate.

Minneapolis—Linseed meal market eased, although supplies for nearby were still rather scarce. Quotations were 50c. lower. Delay in harvesting of flaxseed caused by wet weather slowed crusher operations on new-crop flaxseed. Extracted linseed, 36% protein, was quoted at $53.50 to $54 for September/December shipment. However, fair volume of business was accomplished at 50c. to $1 under quoted prices. Old process meal was in extremely tight supply, no offerings for September. Deferred shipments were steady. Expeller meal, 32% protein, was quoted at $62.50 for October and $61.50 for November/March.

Shipments of linseed meal, in pounds, were as follows:—

	1956-57	1955-56
Past week	12,180,000	21,900,000
Since Sept. 1	21,000,000	38,520,000

Soybean Meal—The government's soybeans crop estimate of 461,928,000 bushels was expected by most of the trade. Trading in soybean meal continued on a hand to mouth basis, although some sales were made for future delivery. Spot shipment prices are being discounted to move immediate shipment material. Forty-four percent unrestricted meal was quoted at $45.50 per ton, bulk, Decatur for immediate; $46. October-December and $48 January-September. Southeastern meal supplies are very scarce and prices held steady at $50 f.o.b. Valley points, September shipment.

Waxes

Consumers continued to restrict purchases to actual needs. Active inquiry was noted for crude beeswax, but trading was affected by the scarcity of offerings from primary sources. Prices were maintained at recent advance and were nominal owing to the lack of actual trading. Demand for carnauba wax continued light. Quotations were without change for all grades. Reports from Brazil stated that new crop carnauba will be frozen at prevailing official floor prices until 1957. Candelilla wax was reduced 2c. per pound in some quarters and crude was quoted at 68c. to 70c. per pound, spot and refined, 71c. to 73c. according to quantity. Stocks here were reported limited. Japan wax was quiet, but firmer, ranging from 48c. to 49c. per pound, spot as to quantity and seller. Bohemian montan wax was scarce and closely held at 26c. to 27c., same basis.

Washine Changes Name

Washine National Sands, Inc., Lodi, N. J., has been renamed Washine Chemical Corporation.

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Filter Presses

Shriver 24" in Stainless; 21 chambers; 4 eye.
Shriver 36" Steam Jacketed; C. I. 29 chambers.
Shriver 42" Cast Iron; closed delivery.

Reactors

Heavy Duty Steel Reactor; 600 gal. 5' x6'; Steam Jacketed; anchor agitator.
Pfaudler Glass Lined; Jkdt. Agitated up to 1,000 gal.
Blaw Knox Stainless; Jktd./Agtd., 8' x 7'6".
Stainless 5,000 Gal. 10' x 9'6"; agitated 40 HP.

Hydraulic Presses

600 ton Hydraulic Press: 22 Heated Platens, 26" x 38".
(2) 300 ton Presses; 11 Heated Platens, 40" x 40".
(2) 125 ton Presses; Heated Platens, 20" x 20".
35 ton Hydraulic Press; Heated Platens, 15" x 15".
Dennison 4 ton Hydraulic Press; Thermo controls.
French Oil Curb-Cage Press; 450 ton; 24" x 36".

Heavy Duty Mixers

Baker Perkins, Size 18; 300 gal. working capacity; Hydr. Tilt.
Baker Perkins, Size 17; 200 gal. working capacity; Power Tilt.
W. & P. Type, Size 15; 100 gal. working capacity; Screw Tilt.
Baker Perkins, Type 316 S/S Cascade Mixer; 625 gal. Charge; Cont.
W. & P. Type Lab., Size 6½" x 5¼" x 5¼"; double Sigma Arms.

Evaporators

Zaremba Double Effect INCONEL; 430 sq. ft.; Calandria
Swenson Multiple Effect; 3000 to 5000 sq. ft. per effect.
Mojonnier Stainless Steel Vacuum Pan; 3' x 10'.

Special Tanks-Vessels-Kettles

Smith 20,000 Gal. Stainless Lined Pressure Tanks; 10' x 30'.
Horizontal Steel Lithcoted Tank; 3,500 Gal. 6' x 15'6".
Stainless Hor. Oval Tank (Milk Truck Type) 3,500 Gal. 21' long.
Patterson Steel Jacketed Agitated Kettles; 1500 Gal. 6'7" x 7', 2300 Gal. 7'4" x 7'6".

Ball & Pebble Mills

Patterson Jacketed Ball Mills; 54" x 42" motorized.
International 8' x 8' Porcelain Lnd. Pebble Mills 50 HP.

Vacuum Chamber Dryers

Devine No. 23; Double Door; 59" x 78"; 13 shelves; 356 sq. ft. with Condenser, Receiver, Vacuum Pump, etc.
F. J. Stokes No. 128 B; 24" x 24", complete with Receiver, Pump, etc.

Drum Dryers

Buflovak Chrome Plated Lab. Flaker or Drum Dryer; 12" x 18" complete with all acessories.
Bagley & Sewall Double Drum Dryer 28" x 60"; 73 sq. ft. surface.
Buflovak Model D Double Drum Dryer; 32" x 72"; comlete.
Buflovak 42" x 100" Double Drum Dryer; S.S. Hood; complete accessories.

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MID-WEST LOCATION — EXCELLENT CONDITION

5—Pfaudler Model RM 1000 gal. glass lined, jacketed, agitated Reactors 50# internal, 90# jacket pressure.

1—30,000 gal. rubber lined Storage Tank 10'6" dia. x 45' long, ½" shell, dished heads.

1—1,650,000 gallon steel storage tank 100' dia. x 28'2" high.

1—Struthers-Wells 4'6" dia. x 16' high, 316 S.S. single effect Evaporator 375 sq. ft. Calandria.

1—Tolhurst 48" Suspended type Centrifugal, rubber covered, perforated basket, bottom discharge, 15/3.75 HP, 720/360 rpm XP motor.

1—Tolhurst 40" Suspended type Centrifugal, rubber covered, perforated basket, bottom discharge, 15/7½ HP, 1200/600 rpm motor.

2—Bird 18" x 28" solid bowl, Continuous Centrifuges 316 S.S. with 15 HP motors.

2—Sperry 30" x 30" P&F Filter Presses, Heresite coated, closed delivery, 30 chambers with hydraulic closures.

3—Durimet 2" Centrifugal Pumps 5 HP motors.

1—Chlorimet 3" x 2" Centrifugal Pump 10 HP motor.

5—Olivite 2" Centrifugal Pumps, 5 HP motors.

12—Duriron 2" and 3" Centrifugal Pumps with 5, 7½, and 10 HP motors.

1—Duriron 5" x 4" Centrifugal Pump with 10 HP motor.

ALL MOTORS 3/60 220/440 VOLT, TEFC

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IN STOCK

3—Link Belt Roto-Louvre Dryers 11' x 6" x 36', 7'5" x 20', 5'2" x 20'.
3—Hersey 4' x 30', 3' x 20', 18" x 12', 304 S.S. Rotary Dryers.
2—Baker Perkins 100 and 50 gal. 316 S.S. double arm Mixers.
1—Baker Perkins 150 gal. double arm, jacketed, double arm Mixer.
2—Robinson 304 S.S. jacketed Powder Mixers 4' x 7'6".
3—Mikro Pulverizers #2TH, #1SH, Bantam.
9—Jeffrey Hammermills 24" x 20", 20" x 12", 15" x 18" NEW.
2—Sharples Super-D-Hydrators C-27, C-20, 316 S.S.
1—Bird 24" x 38", 304 S.S. Continuous, Solid Bowl Centrifuge.
2—Bird 40" Suspended type Centrifugals 347 S.S., perforated baskets, TEFC motors.
3—12,000 gal. Aluminum Tanks 10'6" dia. x 20' high.
1—10,000 gal. Aluminum Tank 10' dia. x 16' long, ½" shell, 25# W.P.
4—Horizontal Steel Storage Tanks 10'x40', 10'x30', 8'6"x25', 8'6"x20'.
10—Kellogg Heat Exchangers, Admiralty tubes, 2700, 2200, 1800, sq.ft.
6—Kellogg Steel Heat Exchangers 1500, 800 and 500 sq.ft.
3—Struthers-Wells 536 and 322 sq.ft., 304 S.S. Heat Exchangers.
1—Oliver 3' x 4' Rotary Vacuum Precoat Filter, 304 S.S.
1—Feinc 5' x 3' Monel Rotary Vacuum String Filter.
1—Niagara #230-32 Pressure Filter, 230 sq.ft., 304 S.S.
10—Nash Vacuum Pumps H-7, H-6, L-5, L-4, #4, #2, MD-671, AL-572.
3—Stokes #412G, #412B, #212B Vacuum Pumps, motor driven.

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SPECIAL OFFERING AT ATTRACTIVE PRICES PRIOR TO DISMANTLEMENT

1—Stainless Steel Spray Dryer, 19' dia. x 20' high, with Sirocco Blowers, controls, etc. Installed in Camden, N. J.

1—Buflovac Double Effect Evapora-

WASTE DISPOSAL PLANT

Built 1951—Unused

Oliver 5'3" dia. x 8' Face Rotary Vacuum Filter, Precoat; with Nash H-6 Vacuum Pump.

34,000 gal. Lead Lined Steel Reaction Tank with Agitator.

Acid Tank, Slurry Tank, Feed Tank, Slurry Pump, Sludge Pump, Acid Pump, Interconnecting Piping, etc.

LIQUIDATING
AT CLOSED PLANTS

IN AMARILLO, TEXAS

1—6500 KW Turbo Generator 4150 V.

1—Westinghouse Surface Condenser, 12,000 sq. ft., with Ing-Rand Circulating Pump, 10,000 GPM.

1—Ing Rand Boiler Feed Pump, 225 GPM; 720' head with 75 HP motor.

1—Ing. Rand Boiler Feed Pump, 225 GPM—720' head, 75 HP turbine.

1—P & H 35 ton Overhead Crane, 40' span.

1—Sharples Oil Purifier.

AT CAMDEN, N. J.

4—Devine Vacuum Shelf Dryers, size #27, 17 shelves 59" x 78", double door.

1—Devine Vacuum Shelf Dryer, size #23, 13 shelves 59" x 78", double door.

2—Pebble Mills, Porox lined: 37" x 48"; 38" x 42".

1—Jeffrey 36 x 42 Hammer Mill.

AT CARIBOU, ME.

8—42,000 gal. Vertical Steel Tanks, 19' dia. x 20' high, welded.

1—5000 gal. Pressure or Vacuum Cooker with agitator, 6'6" D x 20' L.

3—Vertical Steel Pressure Cookers, 2500 gal.

1—Continuous Mash or Starch Cooker, 8" dia. pipe, 8 passes, 40' long.

1—All steel Heat Exchanger, 9 sections, total 3950 sq. ft., 2" tubes.

WELDED STEEL TANKS IMMEDIATE SHIPMENT

AT CINCINNATI, OHIO

25—7780 gal. Vertical, 11' D.
9—4725 gal. Horizontal, 9'2" D.

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AT READING, PA.

7—4650 gal. Horizontal, 9'6" D.

AT PHILADELPHIA, PA.

12—9000 gal. Vertical, 11' dia.
2—14,000 gal. Horizontal, 10'6" dia.
3—7,900 gal. Horizontal 9'1" dia.
1—15,000 gal. Vertical 11' dia. with coils.

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2—125 gal. St. St. Jktd. Cookers & Coolers, agit.
2—FMC 4-Cylinder St. St. Piston Fillers.
1—Pm. Sc. 6-Head Auto. Capper 53 min. cap. 8 oz. jar.
3—St. St. Vinegar Mix Tanks, 300 & 600 gal.

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Stainless Steel

6—500, 150, 100 and 50 gal. jacketed, agitated Reactors.

12—500, 100 and 50 gal. closed jacketed Kettles.

2—500 and 400 gal. S.S. Stills with S.S. Tubular Preheaters and Aftercoolers.

1—Graver 500 gal. Vertical, closed Tanks, side jackets.

6—All Stainless Tubular Condensers, 30, 60, 85, 155, 195 and 200 sq. ft.

Glass Lined

4—Pfaudler 200, 100, 50 and 30 gal. jacketed, agitated Reactors.

2—Pfaudler 2500 gal. Vertical, closed Tanks.

5—Pfaudler 1000, 400, 350 and 200 gal. Vertical, closed Tanks.

5—2'x12' Lastiglas Lined Absorption Columns.

Steel

30—Graver 40"x37' high, Vertical Tanks, side jackets, 2400 gal.

21—Graver 40"x7' Vertical Tanks, side jackets, 500 gal.

1—Stacy 7'6"x10'9" high, closed, Vertical Tanks, 2700 gal. with 7½ H.P. side entering agitators.

5—Vertical, closed Tanks, 10,000 and 20,000 gal. with flame arrestors.

CENTRIFUGES & FILTERS

11—Podbielniak, Model 6900 and 6080 S.S. Extractors, XP motors.

1—Bird 40" suspended Centrifugal, bottom discharge with 30/7½ H.P. motor.

1—Bird-Young 4'x2' steel Rotary Vacuum Filters with copper screening.

1—Republic 15"x15" S/S "Flexo-Master" Filter Press 20 chambers.

1—Sparkler 18-D-12 Rubber Filter.

DRYERS

2—Kathbar Dehumidifying units, Models 500 BLT and 2508 with accessories.

5—Stokes Vacuum Shelf Dryers having 8—44"x40' shelves.

5—National Research Vac. Diffusion units, Model V-10-D.

COMPRESSORS & PUMPS

8—Ingersoll Rand Air Compressors, 480 to 1500 cfm with motors.

10—York Ammonia Compressors, Model D-8, 10"x7½", 8"x6", 6"x6", 5"x5" and 4"x4" with motors and accessories.

10—Kinney Vacuum Pumps, 100 and 200 cfm.

2—Nash Vacuum Pumps, 300 cfm.

77—Ingersoll Rand, Peerless, Dayton-Dowd and Worthington Stainless Bronze and Steel Centrifugal Pumps 1/3 to 20 HP.

MISCELLANEOUS

2—Water Stills 100 GPH and 50 GPH, steam heated.

1—Bantam Mikro Pulverizer, S.S.

150—Recording and Control Instruments, Foxboro, Brown, Beckmann, Taylor and Manning.

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HAMMER MILLS — #2SI Mikro, Jeffrey Junior 15x8 (10 Hp), 20x20 (30 HP), 24" Mikro-Sawtooth-Robinson #9.

CONDENSERS — All s/s Whitlock 12½"x60"—C.I. 30"x72" w/bronze tubes.

MIXERS—13 gal. Stokes—3 cu. ft. Lancaster EBG 3 & EAG 3. Blystone 6RI w/skip.

SCREENS—Rotap Test, 2x6 s/s triple Tyler, 3x5 Double Hummer.

BALL MILLS—Hardinge 6'x22", w/New Lining, 7'x48" Pebble—5'x21' tube.

CRUSHERS—JAW—20x4 Farrel, 9x15 Acme, 15x24 Farrel.

ROTARY DRYERS—12"x22', 3'x20', 39"x21', 44"x25', 5'x40', 6x40.

VACUUM PUMPS—Nash Hytor 1253, H6-H7—IR. 18 & 60 cfm, Leiman 105 cfm.

BUCKET ELEVATORS — 6x8 (51')—6x9½ (50') Enclosed w/motors.

FILTER PRESSES—Shriver 7" Lead w/Lead Diaphragm Pump & 12"x12" p&f. C.I.

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1—Unused #12 Sweetland FILTER, 48 bronze monel covered bottom drainage leaves 3" c/c. Latest type; 1—#2, 23 copper leaves 1½" cc.

2—Day 15 gal. Pony Mixers, m.d. S.S. cans.

2—Stainless Steel Hersey Rotary Dryers, 5'x26' and 6'x23'.

2—8'x125' Rotary Kilns.

1—Williams 52" H.S. Roller Mill.

1—Day #30 Imperial jack. Mixer, 75 gal.

9—Sperry 18"x18" Filter Presses, 11 ch.

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Devine #12 & #23 Vac. Shelf Dryers.
Stokes 2'x6' Rotary Vac. Dryer.
1—Allbr. Nell 4x9 Atmos Drum Dryers.
1—Buffalo Vac. Drum Dryer, 24"x20"

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4—Tolhurst 40" Suspended Type.
8—Centrifugals, 12", 20", 26", 30", 40" & 48" Steel, Copper, Stainless & Rubber.
6—Sharples No. 5A Stainless & #6.
2—De Laval Multi Clarifiers 300 & 301.

FILTERS

#2 Sweetland Filter 12 Stainless covered leaves
1—Vallez Filter #49 with 41 Stainless covered 44½" dia. leaves.
Gen. Amer. 2'x1' Rotary Vac. Filter.
Sperry and Shriver 6" to 36" iron & wood.
Sweetland & Oliver Filters.

KETTLES AND TANKS

Pfaudler 250 gal. Glass Lined Jack. Kettle.
Dopp 350 gal. Agit. Jack Cl Vac Kettle.
2—Impreg. Units 30" & 36" dia. complete.
6—Jack. steel Kettles to 1000 gals.
2300 gal. vert. agit. Jack. Steel Kettle.
1—250 gal. Lead lined Kettle.
Stainless, alum., copper. Glass lined, lead lined and steel kettles and tanks.

PULVERIZERS AND MILLS

2—Mikro Pulverizers #2TH & #2SI.
Pebble Mills 24"x30", 30"x30", 30"x34", 30"x42", 4'x5'. Also jar mills.
#1 Raymond Autom. Pulverizer, 20 HP.
1—#00 Raymond Mill, 30 HP complete.
2—#0000 Raymond Mills.
Sturtevant #00 Swing Sledge Mill, 3 HP.
Schutz-O'Neill #1 & 20" Pulverizers.
Williams #3 & 2XX Hammer Mills.
Ball & Jewell Rotary Cutters Lab & up.
Jeffrey 18"x18" single Roll crusher.
2—Robinson 18" & 22" BB Attrition Mills.
1—Lehman 4 roll W.C., 12"x36" Steel Mill.
4—Lehman & Kent 3 Roll Steel Mills, 9" x32", 12"x30", 16"x40".
1—Monarch 9"x24" Steel Roller Mill, 3 pr. high. Also 7½x20, 4 Roll.
Houchin 18"x30" 4 Roll Granite Stone Mills.
2—U.S. & Premier 1½ H.P. Colloid Mills.

MIXERS, SIFTERS & SCREENS

Day Imperial 75 & 150 gal. Jack. Mixers.
Lancaster 6' dia. Vert. Mixer 25 HP.
Kent 3 HP. continuous dry mixer.
Baker Perkins double arm Mixers, 100 & 50 gals. Also single arm Mixers.
Blystone 3000# horiz. spiral mixer.
Day Brighton 20 gal. Change Can Mixers.
Read 50 & 100 gal. double arm mixers.
Read 80 qt. vert. mixer, 3 speed.
Tyler 3'x5' Vibratory 2 deck Screen.
10—Dry Powder Mixers, 50 to 3,000#.
3—Day 8, 15 & 40 gal. Pony Mixers.
15—Portable Elec. Mixers, ¼ to 3 HP.
6—Lead and Paste Mixers to 150 gals.

MISC. AND SPECIALS

Stokes & Kux 2½" dia. single punch Preform Machines.
Tablet Machines, Single Punch & Rotary.
Anderson & French Oil Expellers.
3—Stokes and Day Powder Fillers.
Filling Machines & Labelers.
Pneumatic Scale Automatic Capper.
1—Howe Mogul barrel and bag packer.
2—Worth 12"x12"x12" Vac. Pumps.
8—Devine, Buffalo, Stokes Vac. Pumps.
Conveyors & Elevators. Gas Boilers.
Soap Machinery for Toilet, Laundry, etc.
Centrif., Rotary, Duplex & Triplex Pumps.

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25 cu. ft. SS Cone Blender
19 cu. ft. Patterson Blender
C27 Sharples Super-D-Hydrator SS.
C20 Sharples Super-D-Hydrator SS.
36" x 50" Bird Cont. Centrifuge.
40" Bird Centrifuge, suspended.
40" SS Bird Sus. Perf. Centrifuge.
48" Bird SS Centrifuge, perforated.
250 cu. ft Rotary jkt. SS Blender.
Condensers, SS 85 to 200 sq. ft.
8 Shelf Vacuum Dryers.
4' x 38' SS lined Dryer.
628 CFM I. R. Compressor 100 PSI.
Pittsburgh Lectrodryer, Type BAC.
502-16 L. B. Roto Louvre Dryer, SS.
York Ammonia Compressors 5-25 ton.
5' x 20' x ¼" Rotary Cooler.
5' x 10 Hearth Herreshoff Furnace.
243D Stokes Oscill. Granulator.
24" Filter Press, Aluminum P&F.
Raymond #1 Pulverizer.
Jeffrey Hammermills, 15 x 8 to 20 x 12.
Katho Bar Units (2).
3-Stage I. R. Ejector.
Flowmaster K200 Homogenizers.
140 cu. ft. Paddle Mixer (NEW).
Micro Pulverizers 2TH & 1W Bantam.
412G Stokes Microvac (NEW).
200 gal. Pfaudler Reactor.
100 & 500 gal. SS Reactors.
2000 gal. Reactor, 200 PSI.
18" Gayco Cent. Separators.
28A Robinson Gyro Sifter, SS.
212B Stokes Vacuum Pump.
1300 gal. Glass-Lined Tank.
2500 gal. Glass-Lined Storage Tank.

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PARTIAL LISTINGS

1—Sparkler Model 33D17 Filter, Type 316 S.S.

2—#12 Sweetland Filters, 36 monel leaves on 4" centers.

2—Devine #28 Dbl. Dr. Vacuum Shelf Dryers.

1—Day 14" x 30" Type B—H.S. Roller Mill.

5—Day & Ross 15 to 50 gal. Pony Mixers.

2—Day Gearless Pony Mixers, 50 & 80 gals.

2—Fletcher 48" S.S. Extractors.

1—Hardinge 3' x 8' Ball Mill.

4—Stokes Model "R" Tablet Machines, variable drive w/3 H.P. motor.

2—Patterson 4 x 5 & 5' x 6' Pebble Mills.

1—W & P Mixer 100 gal. Jacketed, Double Arm w/30 H.P. X.P. motor.

1—Day Stainless Steel Double Arm, Sigma Blade Mixer, 350 gals.

6—Surface Condensers-Receivers, 50 to 150 sq. ft.

3—Rotex Sifters, 20 x 48 to 40 x 84", single and double deck.

1—American Horizontal Autoclave, 4' x 4'—6" x 8' deep.

1—Buflovak Vac. Impregnator, 24" x 36".

1—Blaw-Knox 110 gal. Jack. & Ag. Autoclave, 2000 psi.

1—Keeler 350 H.P. type CP Boiler.

1—Buflovak 6 dia. Vac-Crystallizer.

1—Inconel Heat Exch., 195 sq. ft.

1—Allbright Nell 4' x 9' Double Drum Dryer.

6—Shriver Filter Press Skeletons, 30"—Gear Closure.

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TA 4-2050

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EQUIPMENT
for CHEMICAL AND ALLIED INDUSTRIES

5—Ames 500 HP steam generators, 125 psi, ASME, built 1953.

1—Stainless steel vertical storage tank 3300 gallons.

1—Stainless steel vertical tank 2250 gallons with turbine type agitator and coils.

1—10,000 gallon rubber lined horizontal storage tank.

7—Aluminum horizontal storage tanks 17,000 gallons each.

3—Vertical aluminum storage tanks 10,000 gallons each.

1—Van Alst stainless steel jacketed 500 gallon kettle with agitator.

1—Struthers-Wells type 347 stainless steel autoclave, 1000 gallons capacity, 2000 psi.

1—H. K. Porter stainless steel jacketed 500 gallon kettle.

8—Steel jacketed Reactors 2500 gallons.

1—Pfaudler glass lined jacketed kettle, 200 gallons.

1—Stokes double drum dryer ASME code, complete.

1—Buflovak 42" x 120" double drum dryer ASME, complete.

1—Hardinge rotary dryer 7'6" x 55'.

1—Link belt roto louvre dryer model #502-20.

1—Buflovak cast iron jacketed vacuum crystallizer 6' dia. (New).

1—Bird continuous centrifugal steel filter 24" x 38".

1—Baker Perkins type 316 stainless steel centrifugal filter Model HS-24".

2—Sparkler tpye 316 filter model 18D6.

10—Sweetland #12 Filters with 72 stainless steel leaves.

1—Republic 15" x 15" stainless steel filter 15 chambers.

1—Sperry stainless steel 18" x 18" Filter Press 4 eye closed delivery, 21 chambers.

1—AT&M 18" suspended type centrifuge with perforated basket complete with motor.

1—Link Belt stainless steel rotor louvre dryer model #206-14 complete.

1—DeLaval type 316 multimatic centrifuge.

2—Stokes stainless steel granulators model #21-J and 21-H.

1—Day stainless steel double arm jacketed mixer, 200 gals.

4—Bird suspended type centrifuges with 40" perforated baskets complete with motor and plows.

1—Baker Perkins stainless steel jacketed double arm vacuum mixer, 100 gallons complete with motor.

1—Day 50 gallon gearless pony mixer, complete with motor.

4—Patterson side entering agitators with 25 HP explosion proof motors.

1—Worthington model HB, size 11" x 14" air compressor.

R. GELB & SONS, INC.
UNION, NEW JERSEY Est. 1886 MUrdock 6-4900

ECH SPECIALS

Oliver SS 3' x 4' Filter, complete unit
Artisan Metal Prods. SS Evap. 1 effect
Sharples SS Super-D-Canter, complete unit
Link-Belt SS Rotary Dryer, 31" x 15' complete
Gen. American 42" x 120" Twin Drum Dryer
AT&M 60" Centrifugal 316 SS with 10 hp mtr.
2 Rotex Sifters 40" x 84" and 60" x 120"
BP 2600 gal. SS Mixer, size 30, type RWUEM sigma arms, with 150 hp mtr ERAND NEW
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BIRD CONTINUOUS CENTRIFUGE
18" x 28" S.S. 317

CENTRIFUGE, Suspended 26" all S.S. 15 hp. 4 Speed Motor, Complete Tolhurst
FARRELL Lab Mill 2 Roll 6"x12" XP Motor.
FILTER, Sweetland #2, All S.S. Top Drainage
FILTER, Niagara 35-20, Vert. S.S. Leaves
FLAKER, New Buflovak 6" Dx8" Face Comp.
MILL, Hardinge Conical, Ball 4½ x 16", Complete With Accessories, 20 hp.

MIXERS-(2) J. H. DAY Heavy Duty 12 Gal. D.A. SIGMA, Jack. Geared Both Sides

TANKS, Aluminum (6) 6' x 12' (3 9' x 17 Hor. & Vert.

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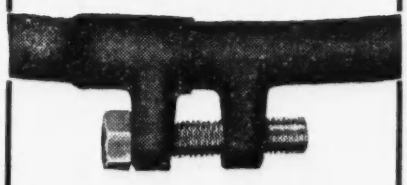

Tests have shown that in the majority of cases failure of 17H drums to meet the drop test is due to leakage at the small gap between the ends of the locking rings.

We have developed and are now able to supply an overlapping ring which eliminates this gap. It will pay you to specify DRUM PARTS OVERLAPPING RING on your orders for 17H drums, **Samples on request.**

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1—Stainless Tank ±430 Chrome, vert. 7'x10' deep.
20—Jacketed Kettles—Stainless, Copper, Aluminum.
1—Day Mixer, steam jacketed, 50 gal. Sigma Blade.
1—Copper Evaporator, steam jacketed, 9'1"x3'9".
60—New Pressure Cookers, 18"x18" & 24"x28"
1—New Glass Nash Centrifugal Pump, 160 gpm.
1—New Nash Vacuum Pump Type AL-572.
1—Buflovak Jacketed Impregnating Tank 42"x52".
1—Stedman Disintegrator size 40-6.
1—Abbe Ball Mill, 36"x42" Buhrstone lined.
±316 Stainless Steel Tanks, new 100, 200 & 360 gal.
1—Nash Air Compressor, Type AL-623.
1—Manton Gaulin Stainless Homogenizer, 125 gph.
1—I&R Vacuum Pump, 5 H.P., 60'.
4—Heat Exchangers, 12" dia. 11' lg., 43 steel tubes.
1—Stokes Single Punch Tablet Machine.
1—Raymond 8" Hammer Mill, like new.
Davenport Rotary Steam Tube Dryer, 6'x36'.
1—New Louisville Continuous Filtering Machine.
2—Stainless Steel Steam Jacketed Readco Mixers.
1—±316 Stainless Reacter, 265 gals. cap., jacketed.
Abbe Pebble & Tube Mill, 5'x22'—Buhrstone Lined.
1—Patterson Ball Mill, porcelain lined, 17"x27".
1—Pattersen Ball Mill, 42x36, jacketed.
2—Large Steam Jacketed Horizontal Mixers.
2—Ribbon Type Mixers, 50 & 90 cu. ft.—like new.
4—Steel Tanks 90,000 gals. ea. vert. welded const.
2—Crystallizers—10' long.
3—3,000 gal. Jacketed Kettles with Turbo Agitators.
1—±10 Day 300 gal. jacketed Sigma Blade Mixer.
4—New Heat Exc. 60' with Cupro Nickel Tubes.
1—Sparkler Stainless Filter Model 33-S-9.
3—2500 gal. Pfaudler G/L Tanks & S/S Agitators.
1—150 gal. Steam Jacketed closed Tank 200# A.S.M.E.
3—Carver Laboratory Presses.

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OUTSTANDING

2—Stainless steel 316—condenser—200 sq. ft.
1—Stokes stainless model 43A granulator.
2—Colton stainless model 17 T F automatic filters, closers & crimpers.
1—Karl Keifer stainless 24 stem rotary vac. filler.
5—Pfaudler 60-100-150 gal. glass-lined jkted, and agtd. evaporating dishes.
1—Lehmann 9x24—3 roll high speed roller mill.
1—Lehmann 5" x 12"—3 roll mill.
1—Day 5" x 12"—3 roll mill.
5—Ertel 12" stainless & rubber filters.
12—Stainless jacketed kettles 20—1000 gal. some agitated.
1—Charlote s/s colloid mill.
3—Baker-Perkins 20 & 2½ gal. jacketed double arm sigma blade mixer.
6—Day Imperial 50 & 75 gal. jacketed double arm dispersion blade mixers.
12—Jeffrey-Williams Raymond hammermills 5—150 HP.
1—Rotex 40" x 84" stainless single deck sifter.
3—3500 gal. aluminum vertical tanks.
2—Shriver 30" x 30" cast iron closed delivery filter presses.
1—Fitzpatrick model K comminuting machine.

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Chemist Desires to represent in the New York area manufacturers of dyes, pigments, pharmaceuticals, raw materials also specialties. Only companies with established accounts considered. Sodium hydrosulphite limited quantities below schedule available for export only. OPD 148.

EQUIPMENT OFFERED

For Sale 93 sq. ft. S.S. T304 Heat Exchanger ASME; 110 gal. Robinson S.S. Unique Semi-Mass Mixer jacketed ASME; 75 gal. S.S. jacketed Day Double Sigma Blade Mixers; 40" suspended Tolhurst Centrifuge with steel perforated basket; 750 gal. S.S. T304 sanitary Tanks; 24"x36" Double Drum Dryer; 64"x13 plate Chrome Iron Column. Best Equipment Company, 617 Davis Street, Evanston, Illinois. DAvis 8-0926.

EQUIPMENT WANTED

Rotary Steam Tube Dryer. 30 to 50 ft. Dewatering press, and Sharples Nozljector—Centrifuge or similar. OPD 142.

FACILITIES OFFERED

Chemical Manufacturing, small modern plant near N. Y. C. Up to 200 gal. cap. Glass & S.S. equipment. Crystallizing specialist, 20 yrs. experience pharmaceutical, dye intermediates, etc. Let us quote on your requirements. OPD 147.

FOR RENT

Newark, N.J. 16,500 Sq. Ft. desirable industrial property. One and two story brick buildings—sprinklered High pressure steam. C.R.R.N.J. siding. Excellent for Chemical manufacturing. 1 minute from Pulaski Skyway and Jersey Turnpike. Principals only. OPD 143.

MATERIALS OFFERED

Dibutyl Cellosolve, four 365 pound drums C&C, F.O.B. Chicago, at 60c. pound. OPD 146.

Action Sale!—save up to 50% on driers, resins, colors, solvents, chemicals, etc. Send for list or submit specific inquiries. Chemical Service Corp., 88 Beaver St., New York 5, N. Y.

POSITIONS OFFERED

Well Established and expanding eastern plastics manufacturing corporation has an excellent supervisory opportunity available for young chemist or chemical engineer in a unique solventless coating process with wide spread applications. Require background in development, production and application in the protective coating field. OPD 144.

Ph.D.'s for Pharmaceutical Development Openings for men well grounded in the development of dosage forms. Extensive industrial bench experience desired. Opportunity for personal initiative. Write fully education and experience. Salary open. OPD 145.

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FINISHED PRODUCTS

Chemical Service Corp.
88 BEAVER ST. N. Y. 5.
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EST. 1925 Cable address "RETORTS" N. Y.

Correction

In reporting a price change in sodium bicarbonate last week, made by Wyandotte Chemicals Corporation, Wyandotte, Mich., it was erroneously reported that prices of sodium bicarbonate would be advanced 15 cents per pound. Actually, prices of sodium bicarbonate manufactured by Wyandotte will be advanced 15 cents per hundred pounds to 25 cents per hundred pounds, depending on grade.

Current Market Quotations

—Continued from page 37

Vitamin B_{12}, crystalline, 1-gram or 5-gram vials..gram 245.00 - —
oral grade solids, in containers of 1 and 5 grams of B_{12} activity..gram 185.00 - —
C (see Acid, ascorbic).
D (see Oils, codliver and fish-liver Calciferol, and Viosterol)
D_2, dry 850,000 units per gram, kilo lots..kilo 42.50 - —
less than kilo lots .....kilo 45.00 - —
E (see a-Tocopherol and Oil, wheat germ).
G (see Riboflavin).
H (see Biotin).
K Active (see Menadione).
K_1, 25 gram bots .....gram, 4.50 - —
Violet methyl toner (see Blue methylviolet toner)
V.M.&P. naphtha (see Petroleum naphtha).

W

Wahoo root, bark, bls. .....lb. 2.25 - —
Warfarin, 0.5%, dms., 50-lb. lots, dlvd..lb. 1.95 - —
25-49-lb. lots, N. Y. or Chicago, lb. 2.05 - —
5-24-lb. lots, cns., N. Y. or Chicago..lb. 2.15 - —
Wattle bark, fair average, African, bales, ex dock..ton 95.00 -96.00
merchantable bales, ex dock..ton 91.00 -92.00
extract, liq., 35% tannin, bbls. lb. .08¼- .08⅝
solid, E. Africa, 60% tannin, bgs., ex dock, duty extra..lb. .09⅞- —
S. Africa, 60% tannin, bgs., ex dock, duty extra..lb. .10 - —
Wax, amorph. (see Wax microcrystalline).
Bayberry, bgs.....lb. .45 - .47
Wax, bees, crude, African, bgs. ..lb. .68 - .69
Brazilian, bgs .....lb. .70 - .72
Central American, bgs.....lb. .68 - .69
Chilean, bgs .....lb. .70 - .72
refd., USP, bleached, white bricks, 100-lb. ctns.....lb. .78 - .80
slabs, 100-lb. ctns.....lb. .77 - .79
yellow, bricks, 100-lbs. ctns.lb. .69 - .70
slabs, 100-lb. ctns.....lb. .68 - .70
Candelilla, crude, bgs.....lb. .68 - .70
refd., bgs. .....lb. .71 - .73
Powdered candelilla, 20 mesh 7c. per lb higher, 80 mesh 7c.; 100-200 mesh 8c.
Carnauba, chalky, bgs., ton lots, lb. .70 - .71
North country No. 2, crude, bgs., ton lots lb. .75 - .76
refd., pure, bgs., ton lots lb. .84 - .85
No. 3, Ceara, crude, bgs., ton lots lb. .71 - .73
refd., pure, bgs., ton lots lb. .80 - .82
tech., bgs., ton lots lb. .72 - .74
Parnahyba, crude, bgs., ton lots lb. .73 - .74
refd., pure, bgs., ton lots lb. .81 - .82
yellow No 1, Ceara, bgs., ton lots lb. 1.42 - 1.44
Parnahyba, bgs., ton lots lb. 1.44 - 1.46
Powdered carnauba wax price differentials same as powdered candelilla
Japan, cs.....lb. .48 - .49
Microcrystalline, coating grades, tankcars, works lb. .09 - .10
laminating grades, tankcars, works lb. .10 - .11
Montan, dom., refd., bgs .....lb. .27 - .29
imp., crude, Bohemian, bgs..lb. .26 - .27
German, bgs. .....lb. No prices.
Ouricury, refd., pure, bgs.....lb. .93 - .95
tech., bgs .....lb. .85 Nom.
Paraffin (see P).
Spermaceti, blocks, cs.....lb. .30 - .33
cakes cs. .....lb. .31 - .34
Sugar cane, dom., refd., slabs, 80 lbs. ctns., works lb. .65 - .75
spot .....lb. .67¼- .72¼
White lead (see Lead, White).
White pine bark, rossed, bls lb. .18 - .19
White precipitate, USP powd., dms., lb. 6.55 - —
Whiting (see Calcium carbonate).
Wild cherry bark, thin, nat., bls. lb. .18 - .19
rossed, bls .....lb. .19 - .22
Witch hazel, bark, bls.....lb. .16 - .17
leaves, bls .....lb. .20 - —
Wollastonite, fine, bgs., c.l., works, ton 39.50 - —
l.c.l. ex whse .....ton 56.00 - —
medium, bgs., c.l., works....ton 27.00 - —
l.c.l., ex whse .....ton 44.00 - —
Woolfat, crude (see Degras).
USP (see Lanolin).
Wormseed, American, bgs. .....lb. .20 - .25
Levant, bgs. .....lb. 4.25 - 4.50
45°-47°C., dms., c.l. same basis.

X

Xylene (see Xylol).
Xylenol, cryst., 58°-60°C., m.p., dms., l.c.l., works lb. .40 - —
56°-58°C., dms., l.c.l., works, frt. equald lb. .30 - —
lb. .212 - —
l.c.l., same basis .....lb. .215 - —
tanks, same basis .....lb. .199 - —
Fraction, b.r. 7°-9°C., dry above 227°C., dms., c.l., same basis..gal. .96 - —
l.c.l., same basis ....gal. .99 - —
tanks, same basis .....gal. .85 - —
dry at or below 227°C., dms., c.l., same basis..gal. 1.11 - —
l.c.l., same basis ....gal. 1.14 - —
tanks, same basis .....gal. 1.00 - —
Xylidines, mixed, o-m-p, dms., c.l. or t.l., works..lb. .39 - —
l.c.l., same basis.....lb. .40 - —
tanks, same basis .....lb. .38 - —
Xylol, coaltar, indust., tanks, works:—
Bethlehem, Pa .....gal. .34 - —
Birmingham dist.....gal. .32 - —
Chicago dist.....gal. .35 - —
Cleveland dist.....gal. .34½- —
Geneva, Utah.....gal. .27 - —
Johnstown, Pa. .....gal. .33 - —
Lackawanna, N. Y...gal. .35 - —
Lone Star, Tex.....gal. .33 - —
Lorain, Ohio .....gal. .33 - —
Middletown, Ohio.....gal. .34 - —
Minnequa, Colo .....gal. .34 - —
Philadelphia dist.....gal. .34 - —
Pittsburgh dist .....gal. .32 - —
Sparrows Point, Md. gal. .34 - —
Terre Haute, Ind...gal. .35 - —
Youngstown, Ohio.....gal. .32½- —
petroleum, indust., tanks, works:—
Bayonne, N. J.....gal. .34 - —
Baytown, Tex. .....gal. .33 - —
Chicago, Ill.....gal. .35 - —
Houston, Tex.....gal. .33 - —
Philadelphia, Pa. ...gal. .34 - —
Providence, R. I.....gal. .35 - —
Wood River, Ill.....gal. .35 - —

Y

Yara, yara, cns. .....lb. 2.15 - 2.65
Yeast, brewer's, dry, USP, 50 int'l B units per gram, 100-lb. dms lb. .47 - —
90 Int'l B units per gram, 100-lb. dms lb. .52 - —
200 int'l B units per gram, 100-lb. dms lb. .56 - —
300 int'l B units per gram, 100-lb. dms lb. .60 - —
debittered, USP, Saccharomyces, dlvd. lb. .27 - —
Torula, USP, dlvd. .....lb. .18 - —
Yellow, barium chromate, CP, bbls., dlvd N. of Tenn. and N. E. of Miss., including Davenport, Minneapolis, Rock Island, St. Louis, St. Paul....lb. .35 - —
Yellow barium chromate price differentials in other States and city zones are those for chrome yellow below.
Yellow, benzidine, AAA, bbls., dlvd. lb. 2.10 - —
AAOT, bbls., dlvd .....lb. 2.85 - —
Lightfast, bbls., dlvd .....lb. 3.15 - —
Cadmium, CP, all shades, bbls., frt. alld., E. of Rockies .....lb. 2.85 - —
Selenide lithopone, all shades, bbls., frt. alld. E. of Rockies..lb. 1.05 - —
Cadmium yellows, Los Angeles and San Francisco, ex whse., 1c. per lb. higher.
Chrome, CP, bbls., dlvd. N. of Tenn., and N.C., E. of Miss., including Davenport, Minneapolis, Rock Island..lb. .33 - .33⅓
Dlvd. Ala., Fla., Ga., La. (Shreveport 1½ higher); Miss., N. C., S. C., Penna., Dallas, Tex. 1¼c. higher; Ft. Worth, Tex. 1½c. higher; El Paso Tex. 2c. higher; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph 1.6c. higher; dlvd. Pac. Coast, for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.
Hansa, 10 g. bbls., same basis as yellow, chrome..lb. 2.25 - —
G pigment, bbls .....lb. 1.91 - —
Iron oxide, natural, French type, bgs., c.l., works .....lb. .06 - —
Peruvian type, bgs., l.c.l..lb. .0205- .0345
pure, bgs., c.l., works .lb. .11½- —
l.c.l., works .....lb. .11¾- —
Mercury oxide, bbls., 1,000-lb. lots lb. 5.58 - —
smaller lots .....lb. 5.60 - —
Ocher (see Yellow, iron oxide, natural).
Zinc (chromate), bbls., dlvd....lb. .27 - .27½
basic, bbls., dlvd .....lb. .31 - .32½
Yerba santa leaves, bls .....lb. .40 - .45
Yohimbine hydrochloride, bots, tin. oz. 3.75 - 4.25

Z

Zein, bgs., 36,000-lb. lots or more lb. .38 - —
1,000 to 36,000-lb. lots, works lb. .40 - —
smaller lots, works .....lb. .43 - —
Zinc acetate, NF VIII, dms.....lb. .53 - —
tech., dms., works .....lb. .27 - —
Borate, bgs., c.l., dlvd. E.....lb. .192 - —
t.c.l. dlvd E .....lb. .202 - —
Chloride, NF, gran., dms .....lb. .42 - —
precipitated, powd., dms .lb. .26 - —
soln., 50%, dms. c.l., works, 100 lbs. 5.50 - —
l.c.l., works .....100 lbs. 6.10 - —
tanks, works .....100 lbs. 4.85 - —
Chloride, tech., fused, dms., c.l., works..100 lbs. 10.10 - —
l.c.l., works .....100 lbs. 10.60 - —
gran. fib. dms., c.l., works, 100 lbs. 10.85 - —
l.c.l., works .....100 lbs. 11.35 - —
Chromate (see Yellow, zinc).
Cyanide, kgs., 1,000-lb. lots or more, works..lb. .523 - —
smaller lots, works .....lb. .543 - —
Dust, pigment, bbls., c.l., works..lb. .17½- —
l.c.l., works .....lb. .18½- —
Fluoride, bbls., works .....lb. .49 - .50
Hydrosulfite, dms., c.l., frt. alld lb. .21½- —
l.c.l., frt. alld .....lb. .22 - .37½
Metal, prime western slabs, E. St. Louis lb. .13½- —
New York .....lb. .14 - —
Naphthenate, liq., 8% Zn., dms., frt. alld. lb. .24½- —
10% Zn. dms. frt alld .lb. .30 - —
Nitrate, tech., cryst., bbls., works, lb. .20 - —
Oxide pigment, American process, lead-free, bgs., c.l., frt. alld..lb. .14½- —
l.c.l., same basis..lb. .15½- —
leaded, 35%, bgs., c.l., mills, frt. alld..lb. .15½- —
l.c.l., same basis..lb. .16½- —
50%, bgs., c.l., same basis..lb. .15⅞- —
l.c.l., same basis..lb. .16⅞- —
French process, coml., green seal, bgs., c.l., frt. alld lb. .15¾- —
l.c.l., same basis ..lb. .16¾- —
red seal, bgs., c.l., same basis..lb. .15¼- —
l.c.l., same basis..lb. .16¼- —
white seal, bgs., c.l., same basis..lb. .16¼- —
l.c.l., same basis..lb. .17¼- —
USP, ctns., c.l., frt. alld...lb. .17¼- —
l.c.l., same basis.....lb. .18¼- —
Zinc oxide Pac. coast prices 1c. higher.
Phenolsulfonate, NF, gran., dms, lb. .39 - —
powd., dms .....lb. .42 - .49
Resinate, precip., 7.2-7.6% Zn., dms., frt. alld lb. .29 - —
Silicofluoride, dms., works ...lb. .12½- .14
Stearate, tech., USP, ctns., c.l..lb. .39 - —
lb. .39 - —
l.c.l. .....lb. .40 - .44
Sulfate, powd., monohydrate, 36% Zn, bgs., c.l., dlvd E 100 lbs. 8.75 - —
l.c.l., dlvd E ....100 lbs. 9.75 - —
Zinc sulfate in bbls. 40c. higher.
USP, gran. dms .....lb. .26 - —
Sulfide, pure, bgs., c.l., dlvd..lb. .2530- —
Undecylenate, dms. .....lb. 2.25 - 2.50
Yellow (see Yellow, zinc).
Zinc-ammonium chloride, bgs., c.l., works, 100 lbs. 9.65 - —
bbls., c.l., works .....100 lbs. 10.25 - —
l.c.l., works .....100 lbs. 10.75 - —
Zinc-formaldehyde sulfoxylate, basic, dms., c.l. lb. .25½- —
l.c.l. .....lb. .26 - —
Zircon (G), gran., bgs., c.l., works, lb. .03½- —
5 tons to c.l., works .lb. .03⅝- —
1 ton to 9,999-lb. lots, works, lb. .04 - —
smaller lots, works .... lb. .06½- —
milled, bgs., c.l., works .....lb. .04½- —
5 tons to c.l., works....lb. .04⅝- —
1 ton to 9,999 lb. lots, works, lb. .04¾- —
500-1,999-lb. lots, works lb. .07½- —
Zircon (G) in barrels, 1c. higher.
Zirconium acetate, 13% com., ZrO., c.l., 30,000 lbs. minimum, works lb. .23 - —
Hydride, cns., works .....lb. 7.60 - 8.45
Nitrate, dms., ex whse .....lb. 4.50 - 7.00
Oxide, 92½-99%, white, grd., bbls. or bgs., works lb. 1.50 - —
lump, electric-fused, bgs., lump, electric-fused, bgs., c.l., works..lb. .44 - —
5-ton lots, works..lb. .44½- —
1 ton to 9,999-lb. lots, lbs., works lb. .45 - —
CP, white, grd., bbls., or bgs., works lb. 1.50 - —
lump, electric fused, bags, 500 to 1,999-lb. lots, works lb. .45½- —
smaller lots, works, lb. .48 - —
milled, electric-fused, bgs., c.l., works lb. .59 - —
5-ton lots, works....lb. .59½- —
1 ton to 9,999-lb. lots, works..lb. .60 - —
500 to 1,999-lb. lots, works lb. .60½- —
smaller lots, works, lb. .63 - —
Oxychloride, cryst., ctns., 5-ton lots, works..lb. .35½- —

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Peppermint, Spearmint

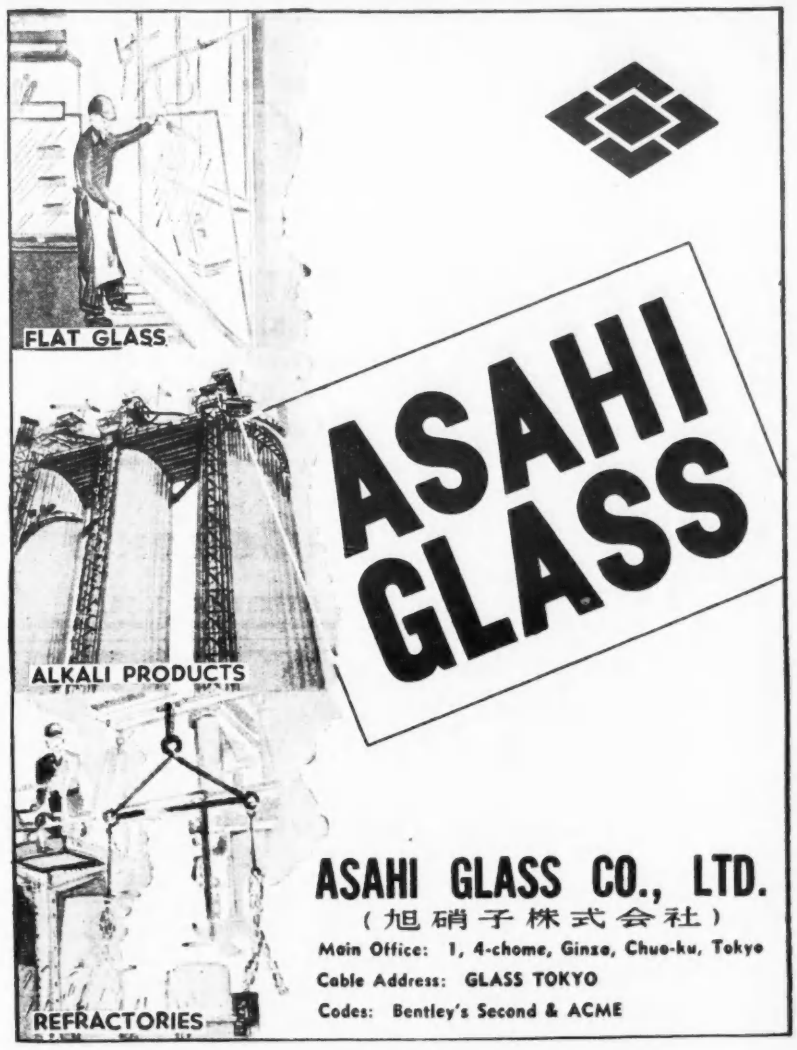
—Continued from page 4

caused harvest delays and reduced yields in some areas.

Distilling is just about completed in western Oregon where warm sunny weather speeded harvest and kept loss of oil to a minimum. While plant foliage was lighter than last year, the yield of oil was greater. Cutting has just started in Jefferson County east of the Cascades.

In western Washington, harvest is about complete. While hot weather in early August caused some leaf loss, distilled yields were still very good. Rust damage was at a minimum this year. In eastern Washington, harvest began the last week of August.

As respects spearmint, the board said that yield prospects improved in Michigan and Washington but declined in Indiana. Frequent rains delayed harvests and made poor curing weather in the midwest. In Washington, first cutting is about complete. Some fields yielded more than anticipated in spite of short hay. Some second cuttings will be made about mid-September.



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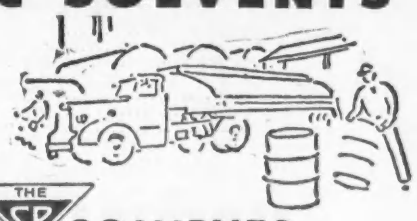

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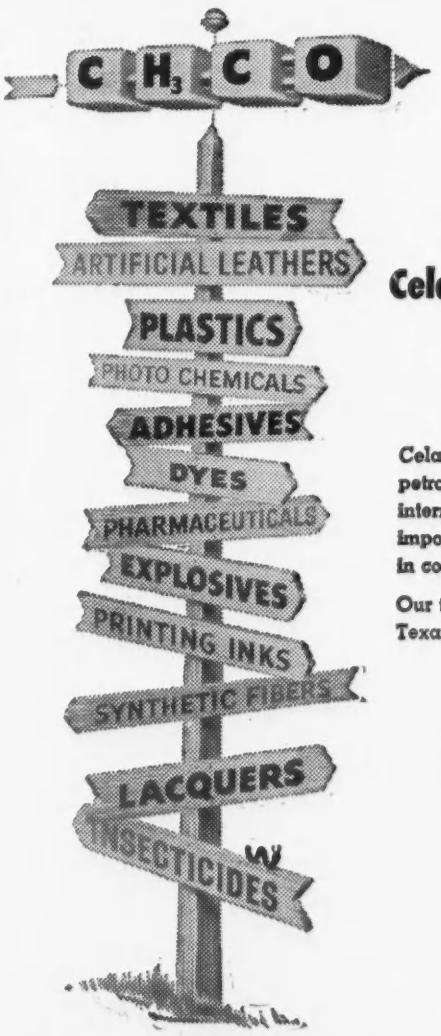

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